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Argonne NATIONAL LABORATORY

Final Report: Groundwater Monitoring at Morrill, Kansas, in September 2005 and March 2006, with Expansion of the Monitoring Network in January 2006

Environmental Science Division

USDA United States Department of Agriculture

Work sponsored by Commodity Credit Corporation, United States Department of Agriculture

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by
Applied Geosciences and Environmental Management Section
Environmental Science Division, Argonne National Laboratory

June 2007

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Contents

Figures

Tables

Notation

AGEM	Applied Geosciences and Environmental Management
AMSL	above mean sea level
BGL	below ground level
°C	degree(s) Celsius
CCC	Commodity Credit Corporation
CD	compact disc
CLP	Contract Laboratory Program
COC	chain of custody
DOE	U.S. Department of Energy
ENVSY	Envirosystems, Inc., Columbia, Maryland
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
gal	gallon(s)
GC-MS	gas chromatograph-mass spectrometer
gpm	gallon(s) per minute
hr	hour(s)
in.	inch(es)
KDHE	Kansas Department of Health and Environment
µg/kg	microgram(s) per kilogram
µg/L	microgram(s) per liter
µS/cm	microsiemen(s) per centimeter
mg/kg	milligram(s) per kilogram
mg/L	milligram(s) per liter
mi	mile(s)
min	minute(s)
mL	milliliter(s)
mV	millivolt(s)
NAD	North American Datum
NGVD	National Geodetic Vertical Datum
nM	nanomole(s)
ORP	oxidation-reduction potential
QA	quality assurance
QC	quality control
RPD	relative percent difference

RSK	Risk-Based Standards for Kansas
RWD	Rural Water District
SDG	sample delivery group
STL	Severn-Trent Laboratories, Colchester, Vermont
TOC	top of casing
USDA	U.S. Department of Agriculture
VOC	volatile organic compound

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Executive Summary

This document reports the results of groundwater monitoring in September 2005 and March 2006 at the grain storage facility formerly operated at Morrill, Kansas, by the Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA). These activities were the first and second twice yearly sampling events of the two-year monitoring program approved by the CCC/USDA and Kansas Department of Health and Environment (KDHE) project managers.

The monitoring network sampled in September 2005 consisted of 9 monitoring wells (MW1S–MW5S and MW1D [installed in the mid 1990s] and MW6S–MW8S [installed in 2004]), plus 3 private wells (Isch, Rillinger, and Stone). The groundwater samples collected in this first event were analyzed for volatile organic compounds (VOCs), dissolved hydrogen, and additional groundwater parameters to aid in evaluating the potential for reductive dechlorination processes.

After the monitoring in September 2005, Argonne recommended expansion of the initial monitoring network. Previous sampling (August 2004) had already suggested that the initial network was inadequate to delineate the extent of the carbon tetrachloride plume. With the approval of the CCC/USDA and KDHE project managers, the monitoring network was expanded in January 2006 through the installation of 3 additional monitoring wells (MW9S–MW11S). Details of the monitoring well installations are reported in this document.

The expanded monitoring network of 12 monitoring wells (MW1S–MW11S and MW1D) and 3 private wells (Isch, Rillinger, and Stone) was sampled in March 2006, the second monitoring event in the planned two-year program. Results of analyses for VOCs showed minor increases or decreases in contaminant levels at various locations but indicated that *the leading edge of the contaminant plume is approaching the intermittent stream* leading to Terrapin Creek.

The groundwater samples collected in March 2006 were also analyzed for additional groundwater parameters to aid in the evaluation of the potential for reductive dechlorination

processes. Preliminary screening of groundwater parameters provided *inadequate evidence that reductive dechlorination of carbon tetrachloride is taking place* at some locations on the former CCC/USDA property.

Groundwater levels measured manually in October 2005, March 2006, and June 2006 were used to map the potentiometric surface at Morrill. The results were generally consistent with each other and with previous measurements, indicating a *groundwater flow direction to the south-southeast from the former CCC/USDA facility*.

Data recorders installed in wells MW1S–MW8S in July 2004 are gathering long-term data on the groundwater elevation and gradient. Data downloaded in August 2004, March 2005, October 2005, and June 2006 indicate that *two relatively upgradient wells near the former CCC/USDA facility responded distinctly to apparent rainfall/recharge events*. In contrast, two downgradient wells south of the former facility showed virtually no response, probably because of the damping influence of the nearby surface drainages and shallow groundwater at their locations.

The first two monitoring events of the planned two-year monitoring program for Morrill have demonstrated no clear pattern of changes in carbon tetrachloride concentrations, though the contaminated zone has expanded toward the intermittent stream. Argonne recommends that *the monitoring program continue as approved and that surface water samples be collected in future monitoring events* (September 2006, March 2007, and September 2007).

1 Introduction

The city of Morrill, Kansas, is located in northwestern Brown County, in northeast Kansas, about 10 mi south of the Kansas–Nebraska border and about 65 mi north of Topeka, Kansas (Figure 1.1). Hiawatha, the Brown County seat, is about 10 mi southeast of Morrill (about 15 mi by road). The population of Morrill is approximately 277 (2000 Census). The Commodity Credit Corporation, U.S. Department of Agriculture (CCC/USDA) operated a grain storage facility in the western portion of Morrill from 1950 until 1971 (Figure 1.2). Under the terms of the lease termination agreement, all grain storage bins were left in place. Storage of grain at the site by the current owner, Mr. Carol E. Bailey, has continued to the present time.

Surface water drainage in the Morrill area is southward toward Terrapin Creek, an east-flowing intermittent stream south of town. Terrapin Creek is a tributary of Walnut Creek, which flows into the Big Nemaha River, a tributary of the Missouri River. No active surface water irrigation or municipal intakes lie within a 4-mi radius of Morrill (KDHE 1989).

This document reports the results of groundwater sampling in September 2005 and March 2006 at the grain storage facility formerly operated by the CCC/USDA in Morrill. These activities were the first and second twice yearly sampling events of the planned two-year monitoring program at this site (Argonne 2005a).

The activities reported here were conducted as part of an ongoing environmental investigation being conducted by the Environmental Science Division of Argonne National Laboratory. Argonne is a nonprofit, multidisciplinary research center operated by the University of Chicago for the U.S. Department of Energy (DOE). Under an interagency agreement between DOE and the USDA, Argonne provides technical assistance to the CCC/USDA with environmental site characterization and remediation at its former grain storage facilities.

1.1 Background

Carbon tetrachloride contamination was first detected at Morrill in 1985 during statewide sampling of public water supply wells for volatile organic compounds (VOCs). In 1989, the Kansas Department of Health and Environment (KDHE) conducted a preliminary investigation of the groundwater contamination at Morrill (KDHE 1989). Carbon tetrachloride was detected in public well PWS5 at 184 µg/L and in a private lawn and garden well east of PWS5 at 22.1 µg/L.

In 1994–1996, GeoCore Services, Inc., conducted an investigation during which six monitoring wells — five shallow (MW1S–MW5S) and one deep (MW1D) — were installed (GeoCore 1994a–d, 1996). Subsequent annual monitoring of these wells in 1998–2000, plus the regional geologic and hydrogeologic setting, indicated that the former CCC/USDA facility might be a source for the carbon tetrachloride plume extending south-southeast from the former facility toward Terrapin Creek (KDHE 2000). The details of the KDHE investigation and a summary of the findings were reported previously (Argonne 2003).

Use of the Morrill public water supply wells for potable water was discontinued in 1991 because of nitrate contamination going back to the 1920s, in addition to the carbon tetrachloride contamination. By 1980, Morrill was obtaining some of its water from the Brown County Rural Water District No. 1 (RWD 1). In 1988, nitrate levels in the RWD 1 water began to exceed the allowable limit. In 1991, the Morrill public system was connected to the Sabetha municipal system (Argonne 2003).

In October 2003, Argonne (on behalf of the CCC/USDA) initiated an investigation of the former CCC/USDA grain storage facility (Argonne 2004a). The primary goals were to (1) verify any association of carbon tetrachloride with the former CCC/USDA facility; (2) verify the contaminant migration pathway from the former facility; and (3) identify any domestic wells outside the city limits that are downgradient from and within 1 mi of the former CCC/USDA facility. As part of the 2003 investigation, vertical-profile soil sampling to a depth of approximately 15 ft below ground level (BGL) or bedrock (whichever was encountered first) was conducted at 16 locations across the former facility. Groundwater sampling of the existing monitoring wells was also conducted, as was surface water sampling along Terrapin Creek.

In May 2004 field work (Argonne 2004b,c), three additional monitoring wells (MW6S, MW7S, and MW8S) were installed along the southwestern and southern extent of the contaminant plume. In June 2004, the nine monitoring wells (MW1S–MW8S, and MW1D) and numerous private wells within and downgradient of the city limits were sampled (Argonne 2005b). The principal findings of the 2004 activities and the 2003 Phase I–Phase II interim investigation were as follows:

1. The absence of detectable levels of either carbon tetrachloride or chloroform above 10 µg/kg (the method quantitation limit) in soils to depths of 13–15 ft BGL indicated that no unacceptable human health risk was associated with either carbon tetrachloride or chloroform in shallow soils at the former

CCC/USDA facility. Furthermore, these analytical results for soil samples collected in October 2003 indicated that no continuing soil source of carbon tetrachloride existed at the former facility.

2. Carbon tetrachloride in groundwater at concentrations in excess of the Risk-Based Standards for Kansas (RSK) level of 5 µg/L extended downgradient from the former CCC/USDA facility (Figures 1.3 and 1.4). In addition, the presence of chloroform in the groundwater suggested that biological degradation of the carbon tetrachloride was taking place in the aquifer unit.

3. Two aquifer zones identified in the vicinity of the former facility — the Grenola limestone and Roca shale above 1,065 ft above mean sea level (AMSL) and the deeper Long Creek limestone member of the Foraker limestone (below 1,065 ft AMSL) — were shown to be geochemically distinguishable on the basis of variations in sulfate and nitrate content.

4. The most likely contaminant pathway was inferred to involve (1) vertical infiltration of carbon tetrachloride from the land surface through the vadose zone to the water table, followed by (2) subhorizontal south-southeastward lateral migration within the Grenola limestone–Roca shale in response to the prevailing hydraulic gradient. The contaminant plume was considered to be approaching Terrapin Creek, which serves as a groundwater drainage divide that would limit the potential southward migration of contaminated groundwater.

5. The city of Morrill obtained its water by pipeline from the municipal water supply of Sabetha and supplied drinking water to all residences in the general vicinity of the existing groundwater plume.

6. No domestic drinking water wells were impacted. Four domestic wells were identified outside the Morrill city limits and downgradient from and within 1 mi of the former CCC/USDA facility (south of Terrapin Creek): the Isch well, the Snyder well, the Kent Grimm well, and the Rodney Grimm well (Figure 1.4).

These findings resulted in the recommendation to implement a program of twice yearly groundwater monitoring to collect the data necessary to determine the rate of plume migration and confirm that *in situ* degradation of carbon tetrachloride is occurring.

In August 2005, Argonne developed a groundwater monitoring plan involving twice yearly monitoring at Morrill for at least two years (Argonne 2005a). After sampling in September 2005, Argonne recommended expansion of the monitoring network, per agreement between the CCC/USDA and KDHE project managers, to facilitate the tracking of plume migration along the western portion of the plume (Argonne 2005c,d).

1.2 The 2005–2006 Sampling Activities and the 2006 Network Expansion

On September 12–14, 2005, the initial monitoring network (MW1S–MW8S, MW1D, and three private wells) at Morrill was sampled, in accordance with the approved monitoring plan (Argonne 2005a). The second monitoring event on March 19–23, 2006, sampled a monitoring network that had been expanded in January 2006 (Argonne 2005c and Section 2.1 of the current report) through the installation of three additional monitoring wells (MW9S–MW11S).

Procedures for sampling and well installation are described in Section 2. The results of both the September 2005 and March 2006 sampling events are reported in Section 3.

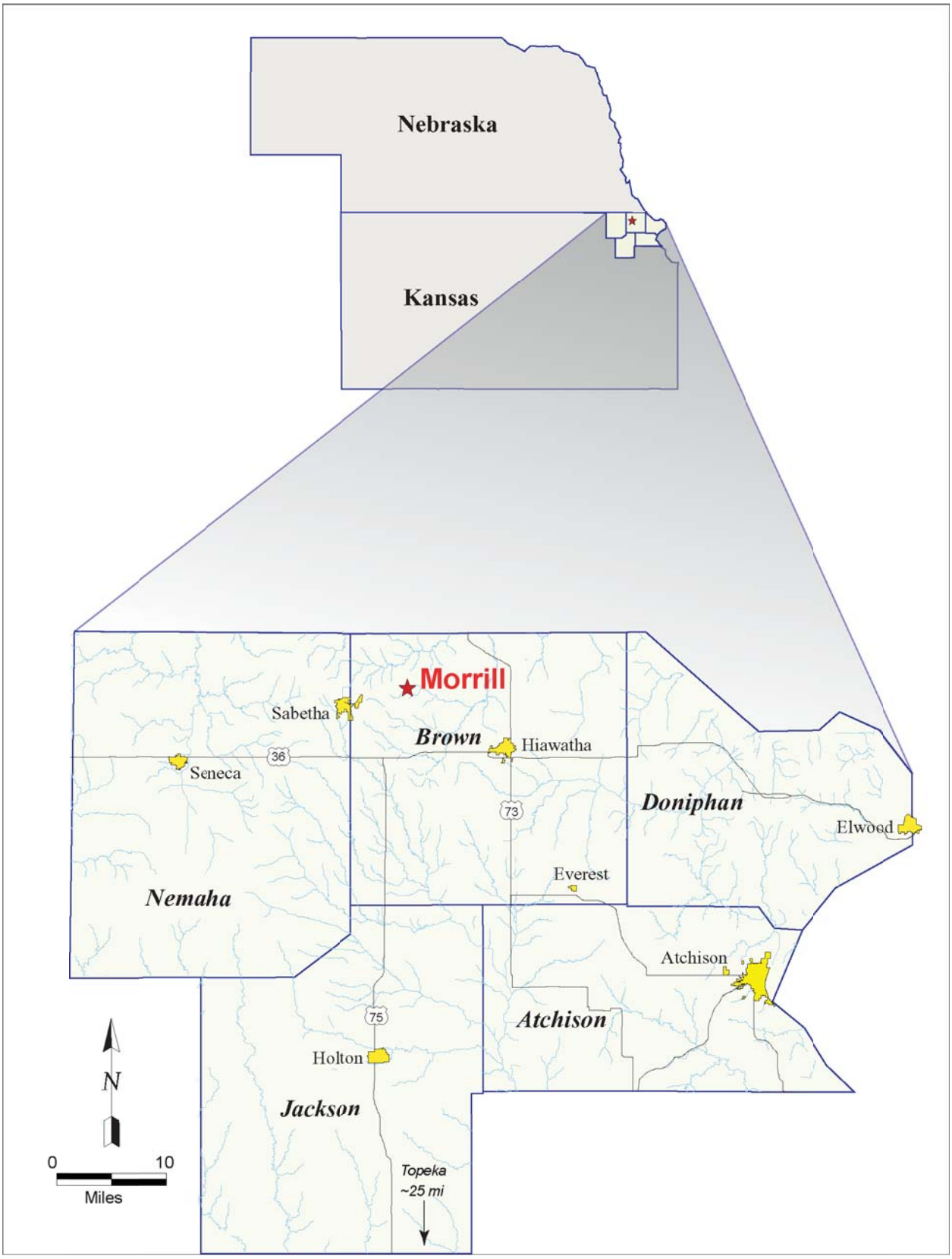

FIGURE 1.1 Location of Brown County and Morrill, Kansas.

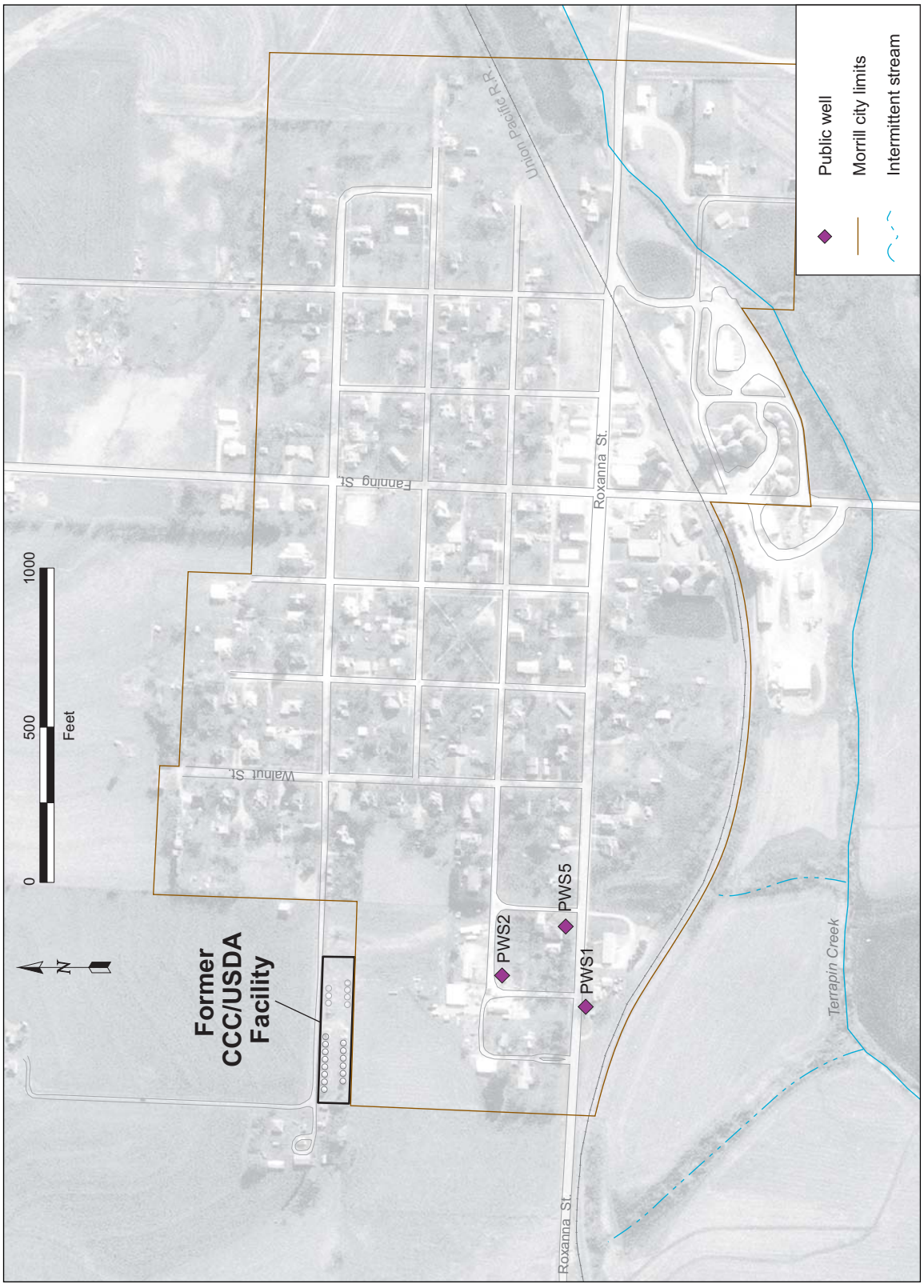

FIGURE 1.2 Locations of the former CCC/USDA grain storage facility and public wells at Morrill. Source of photograph: USDA 1999.

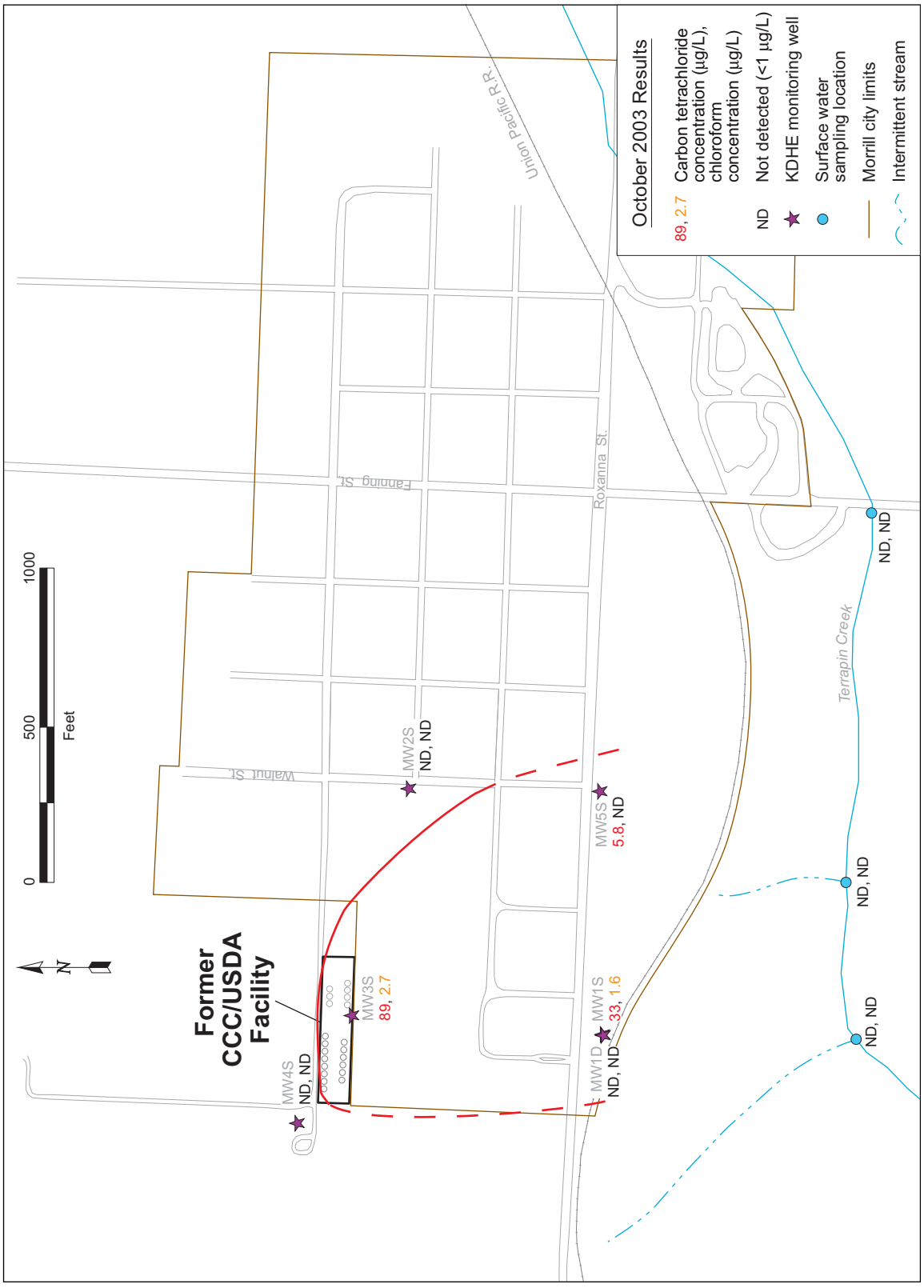

FIGURE 1.3 Interpreted distribution of carbon tetrachloride in groundwater at Morrill in October 2003.

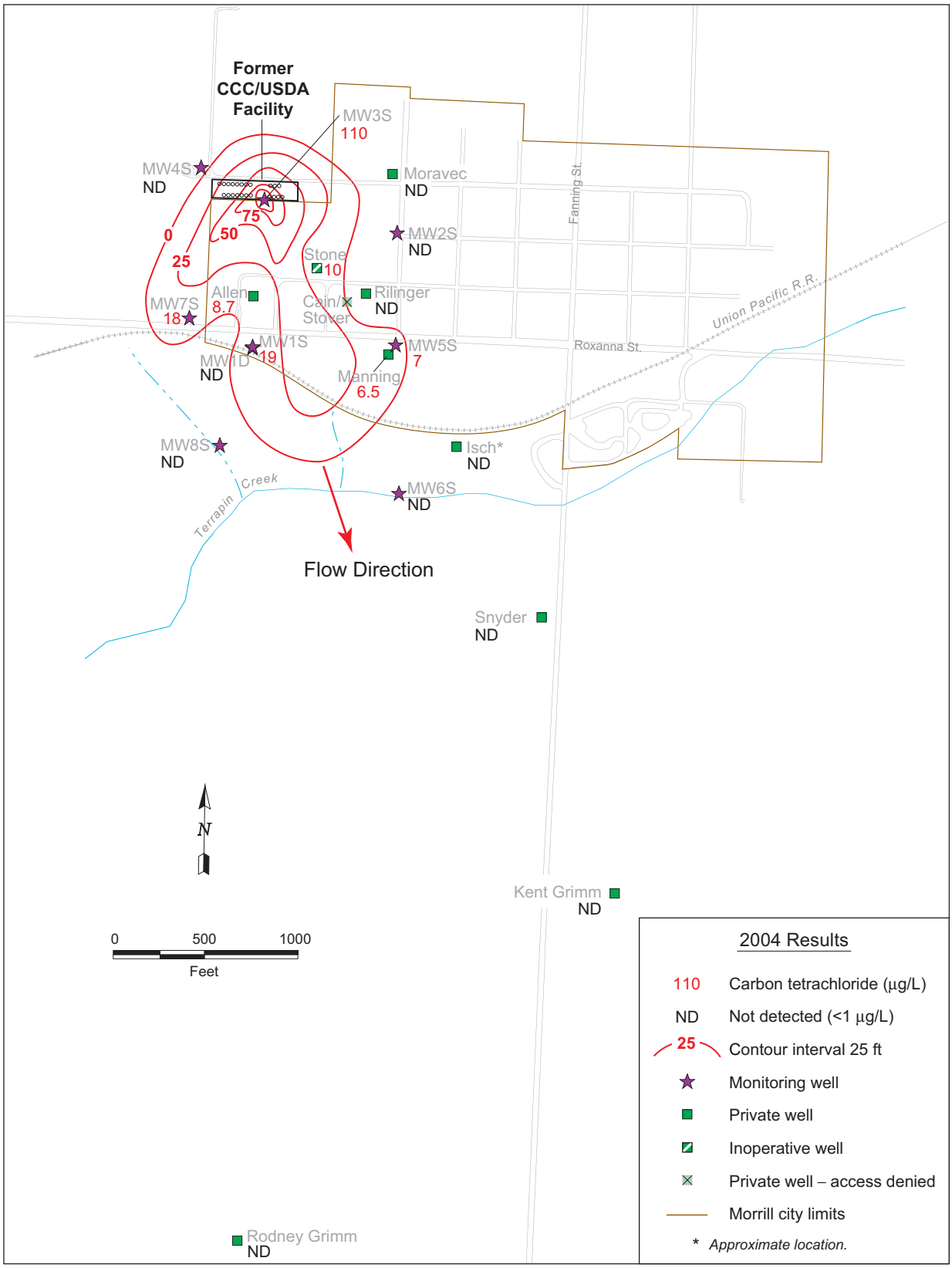

FIGURE 1.4 Interpreted distribution of carbon tetrachloride in groundwater at Morrill in 2004.

2 Field Activities

2.1 Monitoring Wells

Argonne installed three monitoring wells, MW9S–MW11S, in January 2006. The locations of these new wells and the remainder of the monitoring network are shown in Figure 2.1. The 2006 network expansion was intended to track carbon tetrachloride migration along the western portion of the plume. Construction diagrams and the well registration forms for the new monitoring wells are in Appendix A.

2.1.1 Well Installation in January 2006

The three new monitoring wells (MW9S–MW11S) were installed in January 2006 according to the general procedures in Section 6.4.3 of the *Master Work Plan* (Argonne 2002), in addition to site-specific procedures (Argonne 2006a). The screen intervals were adjusted to be representative of the same general thickness of the aquifer as is sampled in monitoring wells MW1S–MW8S. The new wells consist of 2-in. polyvinyl chloride casing installed in 8.25-in.-diameter boreholes. The boreholes were drilled by Boart Longyear with a hollow-stem-auger drill rig. Screens consist of 0.010-slot screen with a 10/20 sand filter pack. The bottom of each well consists of a 5-ft section of blank casing to serve as a silt trap.

Specific details about well construction are in Table 2.1.

TABLE 2.1 Construction details for monitoring wells MW9S–MW11S at Morrill, Kansas.

Well	Surveyed Elevation for Top of Casing (ft AMSL)	Depth (ft BGL)		
		Filter Pack Interval	Screen Interval	Total
MW9S	1118.31	36–58.83	38.83–53.83	58.83
MW10S	1110.78	27–50	30–45	50
MW11S	1133.08	50–73	53–68	73

2.1.2 Completion and Development of Wells in January–February 2006

All wells were completed in accordance with applicable KDHE guidelines and site-specific procedures (Argonne 2006a). Surface completions for the monitoring wells consist of KDHE-approved flush mounts, as shown in the specifications for a 2-in. casing in Figure F.4, Appendix F, of the *Master Work Plan* (Argonne 2002). The appropriate variances were obtained from the state of Kansas for the flush-mount completions. Completion details for wells MW9S–MW11S are in Appendix A.

The wells were developed by surging and bailing for 2 hr and then pumping with an electric submersible pump. Development water was placed in plastic storage tanks at the investigation site. Waste characterization, handling, and disposal are discussed in Section 3.5.

2.2 Sampling of Monitoring Wells in September 2005 and March 2006

After measurement of water levels, wells were purged of a minimum three well volumes. Field measurements of temperature, pH, and conductivity were taken during purging until the measurements stabilized. Per the monitoring plan, field measurements of carbon dioxide, iron(II), dissolved oxygen, and oxidation reduction potential (ORP) were made for the evaluation of possible biodegradation processes. The sequence of activities in the September 2005 and March 2006 field events is summarized in Appendix B.

In September 2005, existing wells MW1S–MW8S and MW1D, plus three private wells, were sampled, according to procedures in the *Master Work Plan* (Argonne 2002). In March 2006, wells MW1S–MW8S and MW1D and the three private wells were sampled again, and new wells MW9S–MW11S were also sampled (Argonne 2006b). In both September 2005 and March 2006, the samples were subjected to off-site laboratory analyses for VOCs and for other groundwater parameters to aid in the evaluation of reductive dechlorination processes (EPA 1998a; ITRC 2002).

In each sampling event, immediately after collection in the appropriate laboratory containers, the groundwater samples were labeled, packaged, and chilled to 4°C by placement in an ice-filled cooler. The samples were shipped for overnight delivery to the Applied Geosciences and Environmental Management (AGEM) Laboratory at Argonne for VOCs analyses with

U.S. Environmental Protection Agency (EPA) Method 524.2 (EPA 1995). In addition, aliquots for laboratory analyses of degradation parameters were collected and shipped to Severn-Trent Laboratories, Colchester, Vermont. The analyses included dissolved chloride, sulfate, nitrate, and phosphate concentrations by EPA Method 300; total alkalinity by EPA Method 310.1; nitrate/nitrite nitrogen by EPA Method 353.2; nitrite nitrogen by EPA Method 354.1; sulfide by EPA Method 376.2; total organic carbon by EPA Method 415.1; and dissolved metals (aluminum, calcium, iron, magnesium, manganese, phosphorus, potassium, silicon, sodium, and zinc) by EPA Method 6010 (EPA 1998b). Analyses for the natural attenuation indicators methane, ethane, and ethene were conducted with Method RSK-175 (Kampbell and Vandegrift 1998).

In the September 2005 monitoring, additional groundwater samples were collected from selected wells for dissolved hydrogen analysis at Microseeps Laboratory, Pittsburgh, Pennsylvania, by Method AM20GAX.

The analytical results are summarized in Section 3.2.

2.3 Measurement of Groundwater Levels

Before the wells were purged in September 2005 and in March 2006, the depth to groundwater and the total depth of each well were measured to within 0.01 ft from the top of the well casing by using a water level indicator.

Data recorders installed in MW1S–MW8S in July 2004 are gathering long-term data on the groundwater elevation and gradient. The data recorders were downloaded on August 31, 2004; March 18, 2005; October 17, 2005; and June 16, 2006.

Groundwater level data are discussed in Sections 3.3 and 4.1.

2.4 Quality Control for Sample Collection, Handling, and Analysis

Quality assurance/quality control (QA/QC) procedures for sample collection, handling, and analysis are described in detail in the *Master Work Plan* (Argonne 2002). Significant points for the work at Morrill include the following:

- Sample integrity was preserved during sample collection, shipping, and analysis through the use of custody seals and chain-of-custody records.
- Field blanks, equipment rinsates, and trip blanks were used to evaluate sample collection and handling activities.
- In addition to the primary samples, four blind replicate samples were collected for organic analysis by the AGEM Laboratory, and two samples were selected for verification organic analysis at a secondary laboratory.

Results of the QA/QC activities are summarized in Section 3.4.

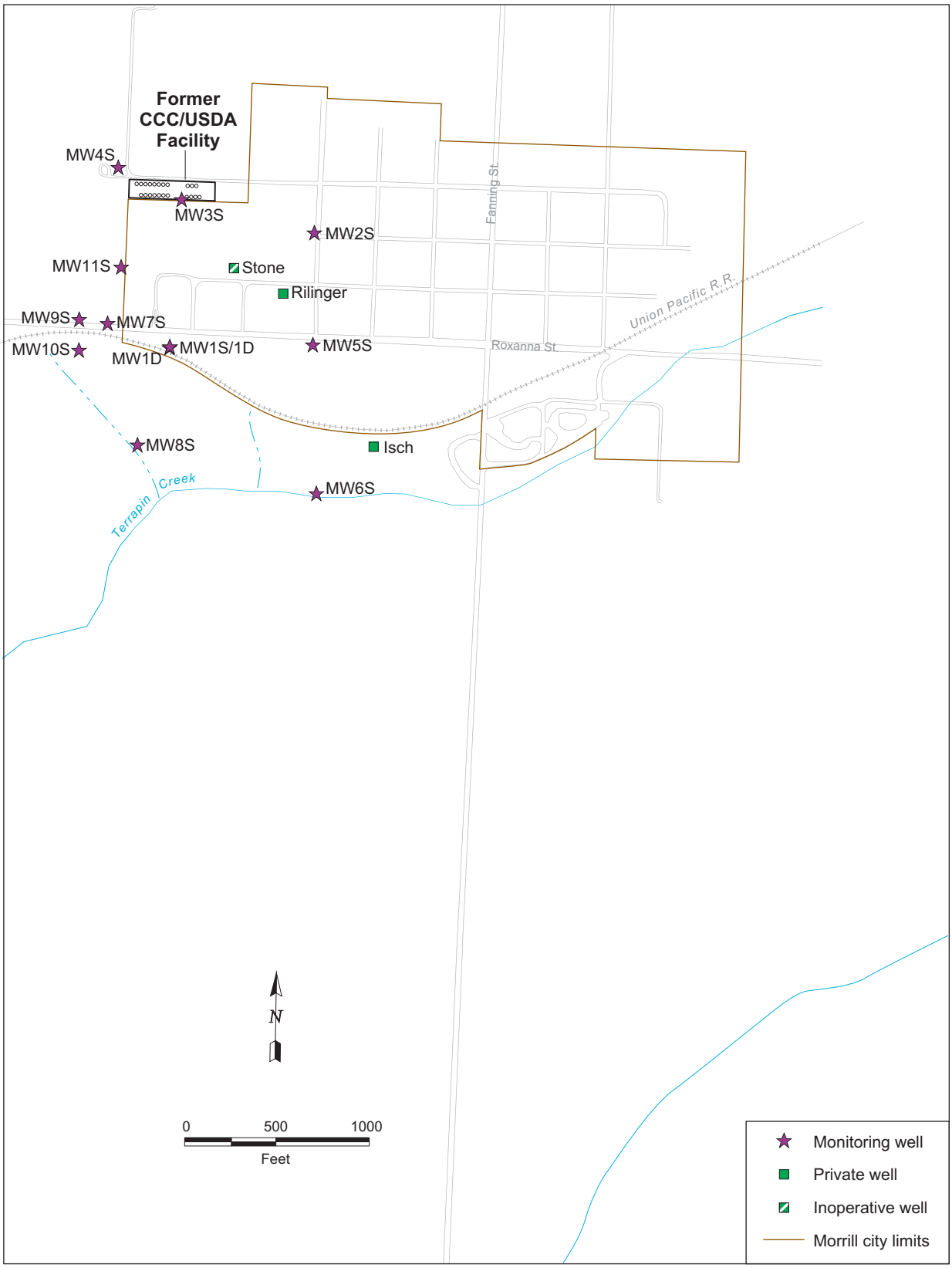

FIGURE 2.1 Monitoring network at Morrill, as of March 2006.

3 Field and Laboratory Data

3.1 Coordinates Survey Data

To provide horizontal and vertical control for water level monitoring, the three newly installed monitoring wells (MW9S–MW11S) were surveyed by Schwab-Eaton, P.A., Manhattan, Kansas. Elevations of the ground surface and the tops of the casings were surveyed. Coordinates survey data for the monitoring wells are in Appendix C, Table C.1.

3.2 Analytical Data for Groundwater

In September 2005, groundwater samples were collected from monitoring wells MW1S–MW8S and MW1D, as well as from three private wells. In March 2006, after expansion of the monitoring network in January 2006, groundwater samples were collected from monitoring wells MW1S–MW11S and MW1D, as well as from the three private wells. Descriptions of the samples are in Supplement 1, Table S1.1. (Supplements 1–4 are on compact disc [CD] inside the back cover of this report.)

3.2.1 Field Measurements

Field measurements of temperature, pH, electrical conductivity, dissolved oxygen, ORP, carbon dioxide, and iron(II) were made during collection of groundwater samples in both September 2005 and March 2006. The results are in Supplement 1, Table S1.2 (on CD).

3.2.2 Contaminant Data

The analytical data for VOCs and nitrate in groundwater samples collected in the September 2005 and March 2006 sampling events (as well as the results from the previous sampling in June 2004) are summarized in Table 3.1. Complete results are in Supplement 1, Table S1.3 (VOCs) and Table S1.4 (nitrate). (Supplement 1 is on CD.)

TABLE 3.1 Concentrations of volatile organic compounds and nitrate in groundwater samples collected at Morrill in 2004, 2005, and 2006.

				Concentration (µg/L)			
Location	Depth (ft BGL)	Sample Type[a]	Sample Date	Carbon Tetrachloride	Chloroform	Methylene Chloride	Nitrate (mg/L)
MW1S	11–51	MW	6/2/04	19	0.9 J[b]	ND[c]	11.2
			9/13/05	35	1.7	ND	14.2
			3/22/06	40	1.8	ND	15.2
MW1D	63–88	MW	6/2/04	ND	ND	ND	< 0.2
			9/13/05	ND	ND	ND	NA
			3/19/06	ND	ND	0.4 J B[d]	NA
MW2S	13–53	MW	6/2/04	ND	ND	ND	16.2
			9/14/05	ND	ND	ND	18.2
			3/21/06	ND	ND	ND	25.4
MW3S	18–48	MW	6/2/04	110	3.2	ND	10.1
			9/13/05	101	3.2	ND	13.5
			3/23/06	91	2.6	ND	15.2
MW4S	17–47	MW	6/4/04	ND	ND	ND	18.9
			9/14/05	ND	ND	ND	20.8
			3/21/06	ND	ND	ND	16.2
MW5S	15–55	MW	6/2/04	7	ND	ND	19.5
			9/13/05	6.3	0.2 J	ND	18.3
			3/22/06	7.3	0.2 J	ND	22.0
MW6S	10–25	MW	6/3/04	ND	ND	ND	0.339
			9/14/05	ND	ND	ND	< 0.4
			3/20/06	ND	ND	ND	0.321
MW7S	20–45	MW	6/3/04	18	ND	ND	16.7
			9/12/05	43	1.1	ND	18.0
			3/22/06	21	0.4 J	ND	19.8
MW8S	10–25	MW	6/3/04	ND	ND	ND	5.85
			9/14/05	0.9 J	ND	ND	10.4
			3/20/06	0.6 J	ND	0.4 J B	8.97
MW9S	38.83–53.83	MW	3/22/06	ND	ND	ND	0.349
MW10S	30–45	MW	3/21/06	ND	ND	ND	0.357

TABLE 3.1 (Cont.)

Location	Depth (ft BGL)	Sample Type[a]	Sample Date	Concentration (µg/L) Carbon Tetrachloride	Chloroform	Methylene Chloride	Nitrate (mg/L)
MW11S	53–68	MW	3/22/06	39	0.9 J	ND	21.8
Isch	Unk[e]	DW	2/19/04	ND	ND	ND	NA
			9/14/05	ND	ND	ND	NA
			3/23/06	ND	ND	ND	NA
Rillinger	Unk	DW	6/4/04	ND	ND	ND	0.348
			9/14/05	2.6	0.1 J	ND	NA
			3/19/06	ND	ND	0.4 J B	NA
Stone	Unk–43	DW	6/4/04	10	ND	ND	10.6
			9/14/05	2.6	0.3 J	ND	NA
			3/19/06	14	0.8 J	0.4 J B	NA

[a] Sample types: DW, domestic well; MW, monitoring well.

[b] Qualifier J indicates an estimated concentration below the method quantitation limit of 1.0 µg/L.

[c] ND, not detected at the instrument detection limit of 0.1 µg/L.

[d] Qualifier B indicates that the compound was present in the method blank.

[e] Unk, unknown depth.

The October 2003 and June 2004 results for carbon tetrachloride are shown in Figures 1.3 and 1.4, respectively. The September 2005 and March 2006 results for carbon tetrachloride are in Figures 3.1 and 3.2, respectively. The March 2006 results for chloroform and nitrate are in Figures 3.3 and 3.4, respectively.

3.2.3 Groundwater Characterization Data

The groundwater samples collected from the monitoring network in September 2005 and March 2006 were analyzed for multiple characterization parameters. Complete analytical results are in Supplement 1, Table S1.4 (on CD).

3.3 Groundwater Level Data

Depths to groundwater were measured manually in all available monitoring wells on July 15, 2004; August 31, 2004; March 18, 2005; September 12–14, 2005 (during sampling); October 17, 2005; March 19–23, 2006 (during sampling); and June 16, 2006. The hand-measured water level data are in Supplement 2, Table S2.1 (on CD). Long-term-recording transducers were installed in monitoring wells MW1S–MW8S in July 2004. Data for the period July 15, 2004, through June 16, 2006, are in Supplement 2, Table S2.2. These data were analyzed to evaluate the groundwater gradient and assess the magnitude of seasonal variations. The results are interpreted in Section 4.1.

3.4 Results of Quality Control Activities

The QA/QC procedures followed during collection, handling, and analysis of soil and groundwater samples are described in detail in the *Master Work Plan* (Argonne 2002) and the monitoring plan (Argonne 2005a). A detailed QA/QC report addressing activities related to sample collection, handling, and analysis during the September 2005 and March 2006 sampling events is in Supplement 3 (on CD). Chain-of-custody forms and analytical data from reference laboratories are in Supplement 4 (also on CD).

Results of the QA/QC activities are summarized as follows:

- Samples shipped to the AGEM Laboratory were received with custody seals intact and at the appropriate temperature. All samples were analyzed within required holding times. Analyses of field blanks, equipment rinsates, and trip blanks indicated that cross-contamination of samples did not occur during sample collection and handling. Carbon tetrachloride and chloroform, the contaminants of concern in the investigation, were not detected in laboratory method blanks analyzed with the samples.

- Monitoring samples were analyzed for VOCs at the AGEM Laboratory by the purge-and-trap method with a gas chromatograph-mass spectrometer (GC-MS) system. The compounds eluting from the GC column were identified by retention time and by comparison with reference library spectra. The concentration of each component was calculated by comparison of the MS

response for the quantitation ion to corresponding calibration curves, the responses for internal standards, or both. The internal standard recovery limits were 80–120%. Calibration checks with each sample delivery group (SDG) were required to be within ±20% of the standard.

- Blind replicate groundwater samples were analyzed at the AGEM Laboratory as a measure of consistency in the sampling and analytical methodologies. Consistency in both methodologies is indicated by the average relative percent difference (RPD) values of 16.4% for carbon tetrachloride and 12.5% for chloroform in dual analyses with the contaminants present.

- Two groundwater samples, including a sample from well MW3S (downgradient of the former CCC/USDA facility) and well MW11S (downgradient and along the western portion of the plume) were also analyzed for VOCs according to the EPA's Contract Laboratory Program (CLP) methodology by Envirosystems, Inc., of Columbia, Maryland. Results were as follows:

  - Agreement between the two laboratories was acceptable, although for both samples higher carbon tetrachloride concentrations were reported by AGEM Laboratory than by Envirosystems.

  - The sample from MW3S, which has consistently had the highest level of carbon tetrachloride contamination during long-term monitoring, was analyzed at the AGEM Laboratory with a concentration of 91 μg/L and by Envirosystems with a concentration of 62 μg/L, for an RPD value of 37.9%.

  - Similarly, the sample from the newly installed downgradient monitoring well MW11S was analyzed at the AGEM Laboratory with a concentration of 39 μg/L and by Envirosystems with a concentration of 26 μg/L, for an RPD value of 26%.

- The results for attenuation parameters in groundwater samples sent to Severn-Trent are acceptable for evaluation of biodegradation processes on the basis of

the recovery of known concentrations of the analytes of interest in laboratory QC samples analyzed with the groundwater samples.

- The results for dissolved hydrogen analysis of groundwater samples at Microseeps Laboratory are accepted because the associated trip blank contained no dissolved hydrogen.

3.5 Waste Characterization, Handling, and Disposal

Purge water from wells historically containing carbon tetrachloride at concentrations exceeding the RSK level of 5 μg/L was held in containers on-site. Wastewater from the September 2005 monitoring event was taken to the publicly owned treatment works at Sabetha, Kansas. A sample of the wastewater from the January–March 2006 activities was analyzed by M.D. Chemical and Testing, Inc., Topeka, Kansas, on June 15, 2006. No volatile organic compounds were detected (Supplement 5, on CD). The drummed wastewater was discharged to the ground on June 20, 2006.

Four drums of potentially contaminated subsurface soil cuttings from the Morrill well installations were stored pending analysis and disposal. Neither carbon tetrachloride nor chloroform was detected at a detection limit of 0.05 mg/kg in a composite sample analyzed by M.D. Chemical and Testing, Inc., on June 7, 2006 (Supplement 5, on CD). In accordance with KDHE special waste disposal authorization 06-0581, the soil cuttings were taken to the Rolling Meadows landfill on June 20, 2006, for disposal.

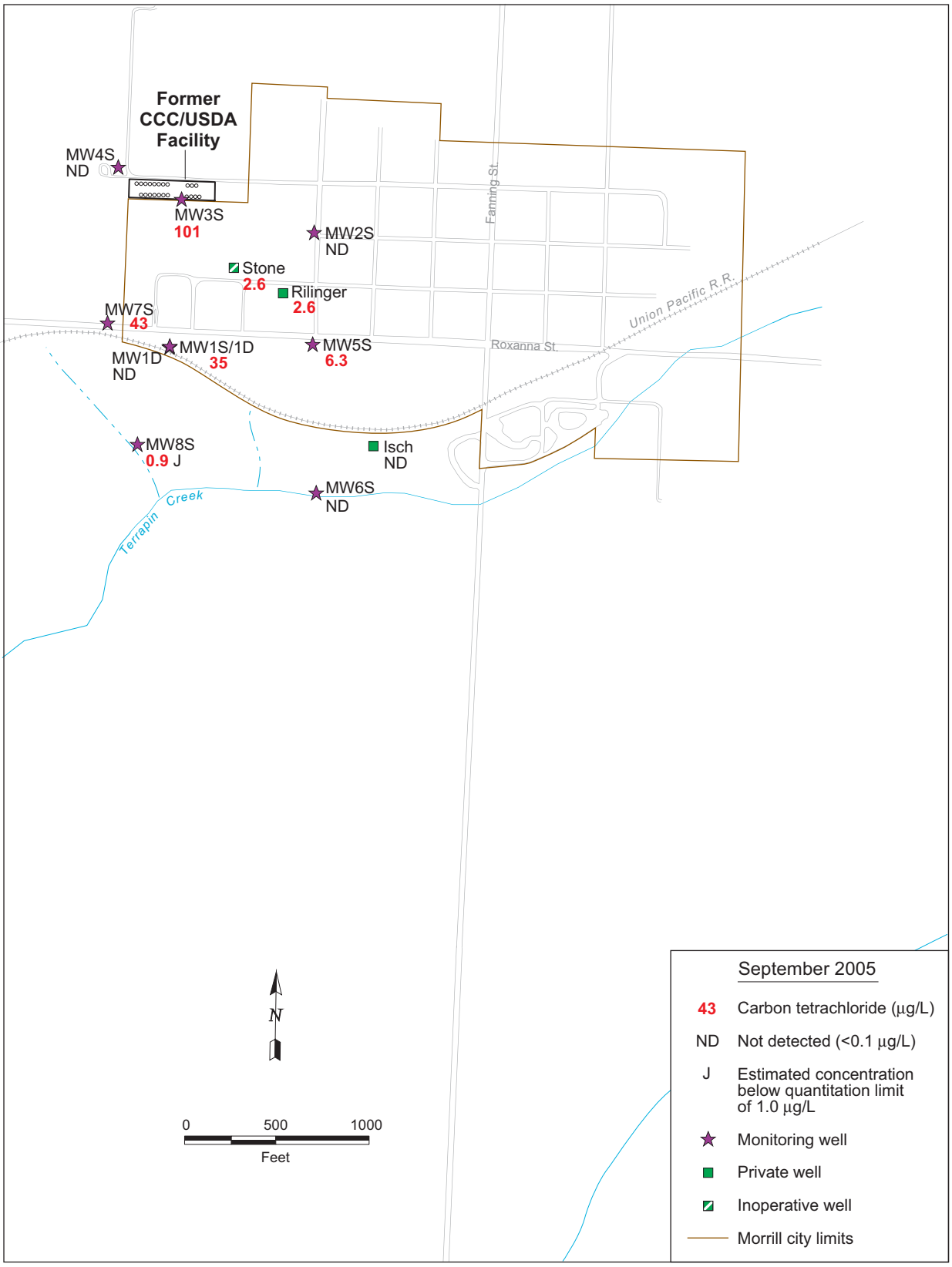

FIGURE 3.1 Carbon tetrachloride levels in groundwater at Morrill, September 2005.

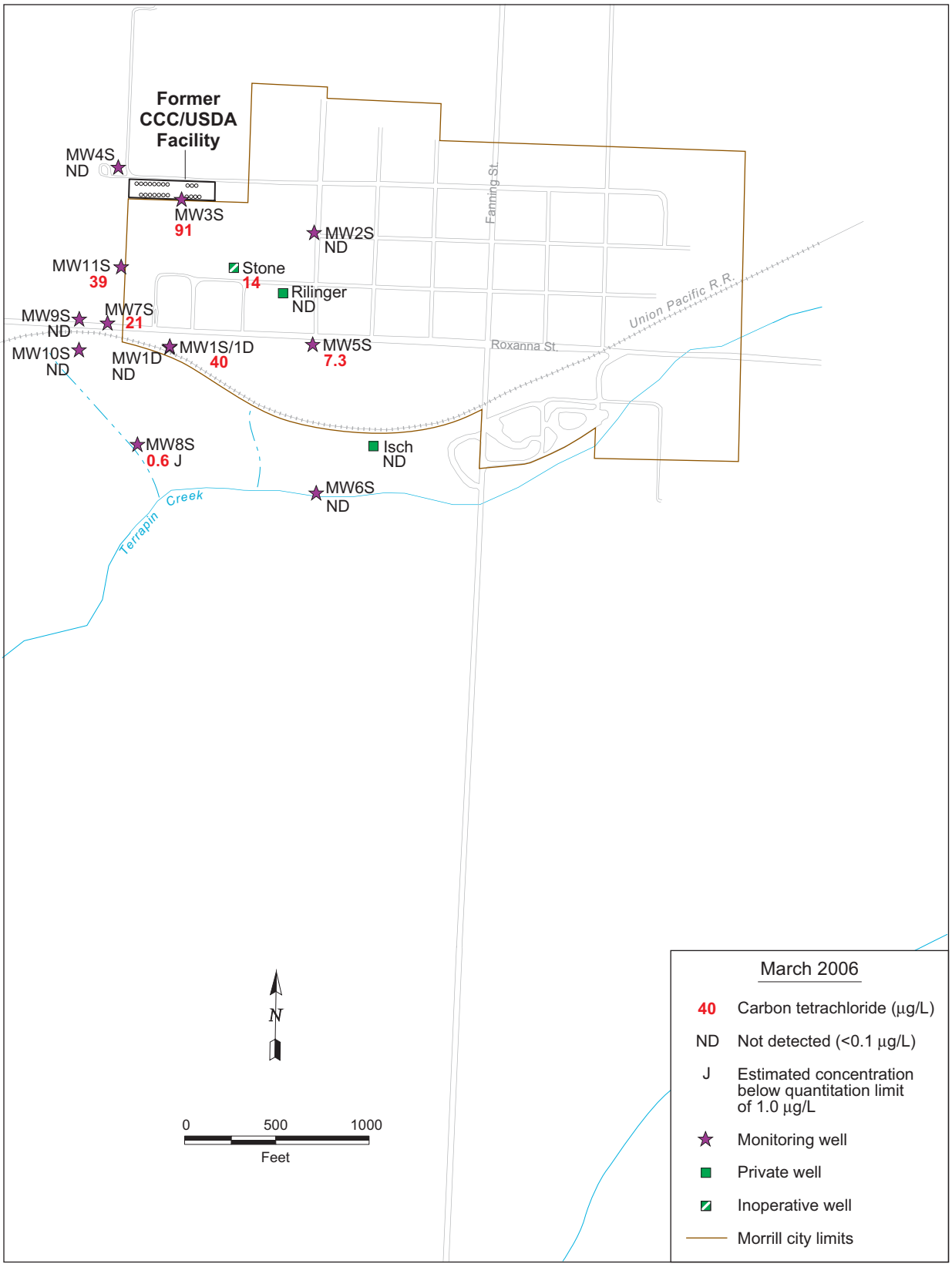

FIGURE 3.2 Carbon tetrachloride levels in groundwater at Morrill, March 2006.

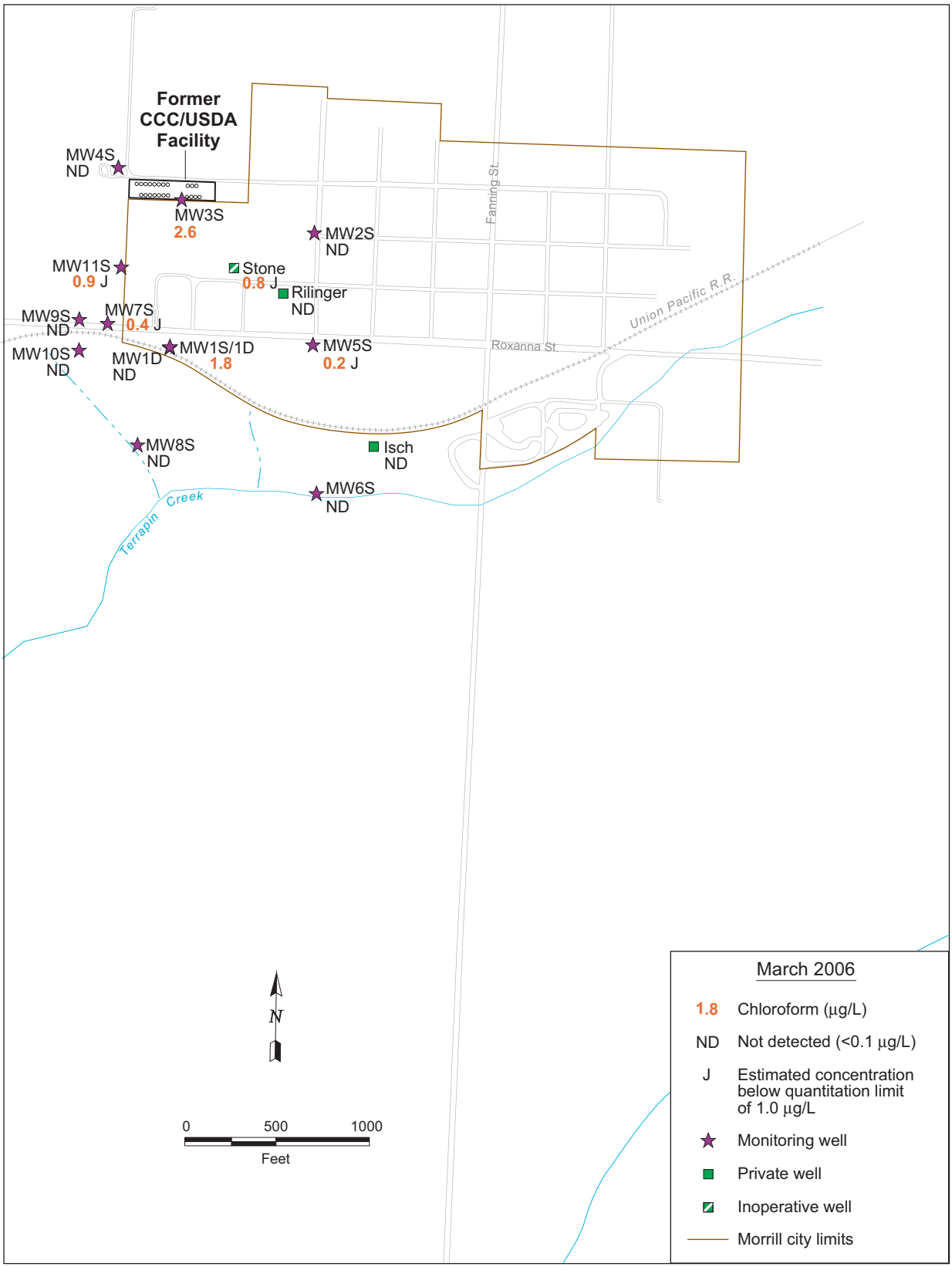

FIGURE 3.3 Chloroform levels in groundwater at Morrill, March 2006.

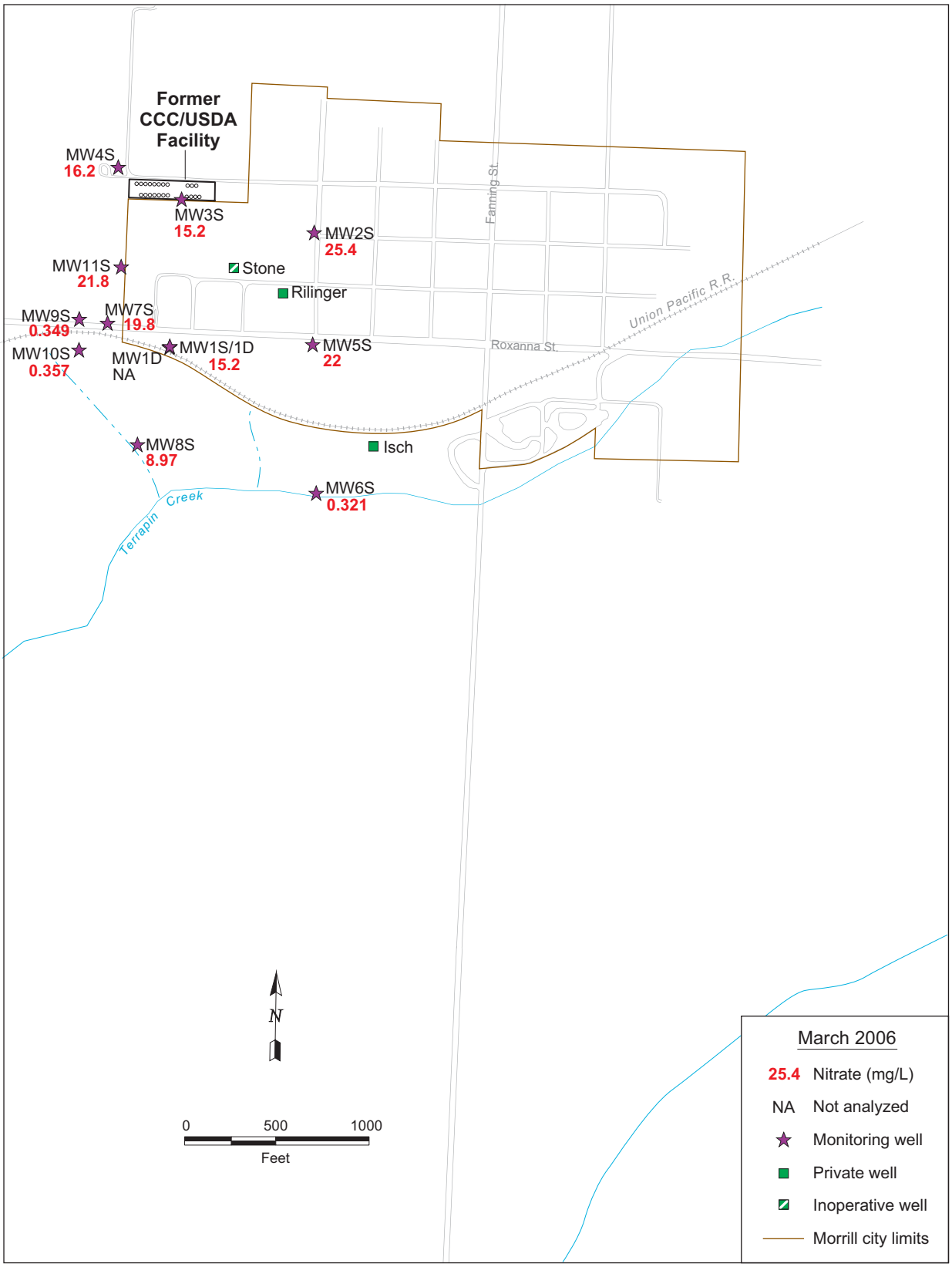

FIGURE 3.4 Nitrate levels in groundwater at Morrill, March 2006.

4 Interpretation of Field and Laboratory Data

4.1 Groundwater Level Data

The potentiometric surface at Morrill, based on manual measurements on October 17, 2005, March 19–23, 2006, and June 16, 2006, is depicted in Figures 4.1, 4.2, and 4.3, respectively. Overall, the recent results are consistent with each other and with previous measurements (Figure 4.1 in Argonne 2005b), indicating a groundwater flow direction toward the south from the former CCC/USDA facility. The apparent low water level at MW11S on June 16, 2006 (Figure 4.3) empirically suggests the presence of a groundwater "sink" southwest of the former CCC/USDA facility. This apparent feature will be investigated in future monitoring events.

The results of long-term water level monitoring in wells MW1S–MW8S, from July 15, 2004, to June 16, 2006, are summarized in Figure 4.4. The water level traces show a general seasonal pattern of recharge and water level rise during the spring and early summer, then a fairly steady decline during the rest of the year. Prominent responses to individual recharge events are especially apparent for well MW3S (just downgradient of the former CCC/USDA facility) and to a lesser degree for well MW2S. The trace for MW4S shows a large seasonal variation in water level but not the spikes observed in most other wells. The traces for MW6S and MW8S show the least variation over time, probably because of their positions in shallow groundwater along the surface drainages. The "drawdown" spikes at MW1S in May 2006 (Figure 4.4) suggest pumping events at nearby well PWS1 (location shown in Figure 1.2) for nonpotable uses. The cause for the apparent "drawdown" spike at MW8S, lasting more than 4 hr, is unknown at present. Continued monitoring will provide further information.

4.2 Delineation of Contaminants in Groundwater

4.2.1 Carbon Tetrachloride Concentrations and Distribution

In the September 2005 sampling (Figure 3.1), carbon tetrachloride was detected at 7 of the 12 monitoring locations, at concentrations ranging from < 1 µg/L (1 location) to a maximum of 101 µg/L at well MW3S. This concentration at MW3S is far above the RSK value of 5 µg/L,

though it represents a slight decrease from the previous value of 110 µg/L at MW3S in June 2004. Trace levels of carbon tetrachloride (< 1 µg/L) were detected in MW8S, near an intermittent stream upgradient from Terrapin Creek.

In March 2006 (Figure 3.2), carbon tetrachloride was detected at 7 of 15 monitoring locations, at concentrations ranging from < 1 µg/L (1 location) to a maximum of 91 µg/L at well MW3S. Carbon tetrachloride was detected in new well MW11S, downgradient from the former CCC/USDA facility and near the western boundary of the plume, at 39 µg/L. A trace level of carbon tetrachloride was again found at well MW8S.

The combined analytical results for June 2004, September 2005, and March 2006 indicate that carbon tetrachloride concentrations at some locations are decreasing slightly (while they are increasing slightly or fluctuating at other locations). The contaminant appears to be migrating toward Terrapin Creek. However, like the other data collected at Morrill since 1995, the recent results fail to define a clear pattern of changing contaminant levels or migration. Future monitoring events in September 2006, March 2007, and September 2007 will continue the effort to observe trends.

4.2.2 Chloroform Concentrations and Distribution

In the September 2005 sampling, chloroform was detected at 6 of the 12 monitoring locations (Table 3.1), at concentrations ranging from < 1 µg/L (3 locations) to a maximum 3.2 µg/L at well MW3S. This concentration is below the RSK value of 100 µg/L for chloroform.

In March 2006 (Figure 3.3), chloroform was detected at 6 of 15 monitoring locations, at concentrations ranging from < 1 µg/L (4 locations) to a maximum of 2.6 µg/L at well MW3S.

The presence of chloroform at MW3S and downgradient monitoring points in both sampling events suggests that carbon tetrachloride is being degraded.

4.2.3 Nitrate Concentrations and Distribution

Nitrate was detected in March 2006 at all of the 11 locations sampled for this substance (Figure 3.4), at concentrations ranging from < 1 mg/L (MW6S, MW9S, MW10S) to a maximum concentration of 25.4 mg/L at MW2S. The nitrate concentration exceeded the RSK value of 10 mg/L at 7 of the 11 locations sampled. These values are consistent with results of the September monitoring (Table 3.1). The nitrate levels in groundwater are not associated with activities of the CCC/USDA.

4.3 Preliminary Screening for Anaerobic Biodegradation Processes

Results for the analytical parameters identified in Section 2.2 were used in a preliminary screening of the site to aid in determining whether the *in situ* conditions there are appropriate for anaerobic biodegradation. Long-term monitoring data would be required for a definitive determination of the importance of biodegradation at Morrill, but examination of the results of the present sampling for evidence of *in situ* conditions amenable to biodegradation is valuable nevertheless.

The methodology used in this preliminary evaluation of biodegradation for the Morrill site was presented by the EPA (1998a). This protocol examines the results of the groundwater parameter analyses to establish evidence that anaerobic biodegradation is taking place via reductive dechlorination — only one of the processes by which carbon tetrachloride is biodegraded. Degradation of carbon tetrachloride is also known to take place via a reductive denitrification co-metabolic pathway, as discussed by ITRC (2002). However, the present initial examination evaluates the evidence for reductive dechlorination on the basis of the EPA (1998a) protocol. This commonly used protocol is based on the premise that biodegradation causes predictable changes in groundwater chemistry.

Table 4.1 summarizes the evaluation of the March 2006 analytical results for samples from wells MW1S–MW11S with the EPA protocol.

In monitoring to date, “inadequate evidence” has been found for anaerobic biodegradation of carbon tetrachloride (scores of 0–5 in the scale used in Table 4.1). Though the data density and distribution could affect the screening results to an extent, the available

evidence does not suggest that better coverage would reveal a significant potential for anaerobic biodegradation of carbon tetrachloride at the Morrill site.

TABLE 4.1 Scoring of biodegradation processes at Morrill — March 2006 data.[a]

		MW1S		MW1D		MW2S		MW3S		MW4S		MW5S		MW6S		MW7S		MW8S		MW9S		MW10S		MW11S	
	Units	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points	Conc.	Points
Dissolved Oxygen	mg/L	9.94	-3	5.11	-3	9.4	-3	6.74	-3	10.9	-3	4.52	0	1.37	0	5.52	-3	0.9	3	0.41	3	2.1	0	9.4	-3
Nitrate	mg/L	15.2	0	< 0.2[b]	2	25.2	0	15.2	0	16.2	0	22	0	0.321	2	19.8	0	8.97	0	0.349	2	0.357	2	21.8	0
Iron(II)	mg/L	0.01	0	0	0	0.14	0	0.08	0	0	0	0.06	0	0.38	0	0.03	0	0.05	0	0	0	0.01	0	0.06	0
Sulfate	mg/L	39.3	0	1340[b]	0	51	0	22.8	0	18.2	2	48.5	0	1560	0	25.8	0	159	0	57.1	0	42	0	25.2	0
Sulfide	mg/L	< 0.02	0	NA[c]	-	< 0.02	0	< 0.02	0	< 0.02	0	< 0.02	0	< 0.02	0	< 0.02	0	< 0.02	0	< 0.02	0	< 0.02	0	< 0.02	0
Methane	mg/L	< 0.002	0	NA	-	< 0.002	0	< 0.002	0	< 0.002	0	< 0.002	0	< 0.002	0	< 0.002	0	< 0.002	0	< 0.002	0	< 0.002	0	< 0.002	0
ORP	mV	220	0	230	-	262	0	269	0	154	0	234	0	89	0	268	0	153	0	25	0	88	0	237	0
pH	–	7.23	0	6.95	0	7.07	0	7.16	0	7.25	0	7.25	0	6.91	0	7.32	0	7.04	0	7.17	0	7.11	0	7.33	0
Total Organic Carbon	mg/L	1.68	0	NA	-	7.63	0	1.95	0	9.28	0	2.38	0	< 1	0	2	0	1.12	0	1.6	0	4.26	0	2.19	0
Temperature	°C	15.5	0	12.9	0	13	0	8.9	0	6.7	0	13.9	0	9.8	0	15.2	0	12.5	0	14.6	0	6.3	0	14.8	0
Carbon Dioxide[d]	mg/L	40	0	NA	-	25	0	25	0	25	0	35	0	60	1	25	0	30	0	35	0	40	0	30	0
Alkalinity[d]	mg/L	311	0	NA	-	301	0	287	0	222	0	297	0	263	0	304	0	302	0	350	0	351	0	316	0
Chloride[d]	mg/L	87	2	18.5[b]	2	23.3	2	3.85	0	9.11	0	13.1	0	31.4	2	9.76	0	26.8	2	5.97	0	6.07	0	8.22	0
Dissolved Hydrogen	nM	2.7[e]	3	NA	-	2.4[e]	3	2.8[e]	3	8.5[e]	3	31[e]	3	NA	0	0	3	NA	0	NA	0	0	0	NA	0
Chloroform	µg/L	1.8	2	< 1	0	< 1	0	2.6	2	< 1	0	0.2 J[f]	2	< 1	0	0.4 J	2	< 1	0	< 1	0	< 1	0	0.9 J	2
Dichloromethane (methylene chloride)	µg/L	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0	< 1	0
Total points =>		4		1		2		2		2		5		5		2		5		5		2		-1	

[a] Scoring is based on results for samples collected in March 2006. Points are interpreted as follows (EPA 1998a):
0–5 Inadequate evidence for reductive dechlorination.
6–14 Limited evidence for reductive dechlorination.
15–20 Adequate evidence for reductive dechlorination.
> 20 Strong evidence for reductive dechlorination.

[b] The inorganic data for MW1D are for a sample collected on June 2, 2004. This well was not sampled for indicated parameters in March 2006.

[c] NA, not analyzed.

[d] For evaluation of alkalinity, carbon dioxide, and chloride, MW4S (because of its location) was selected to represent background levels. For these constituents, points are awarded when the concentration is greater than twoce the background concentration.

[e] The dissolved hydrogen data are from sampling in September 2005.

[f] Qualifier J indicates an estimated concentration below the method quantitation limit of 1.0 µg/L.

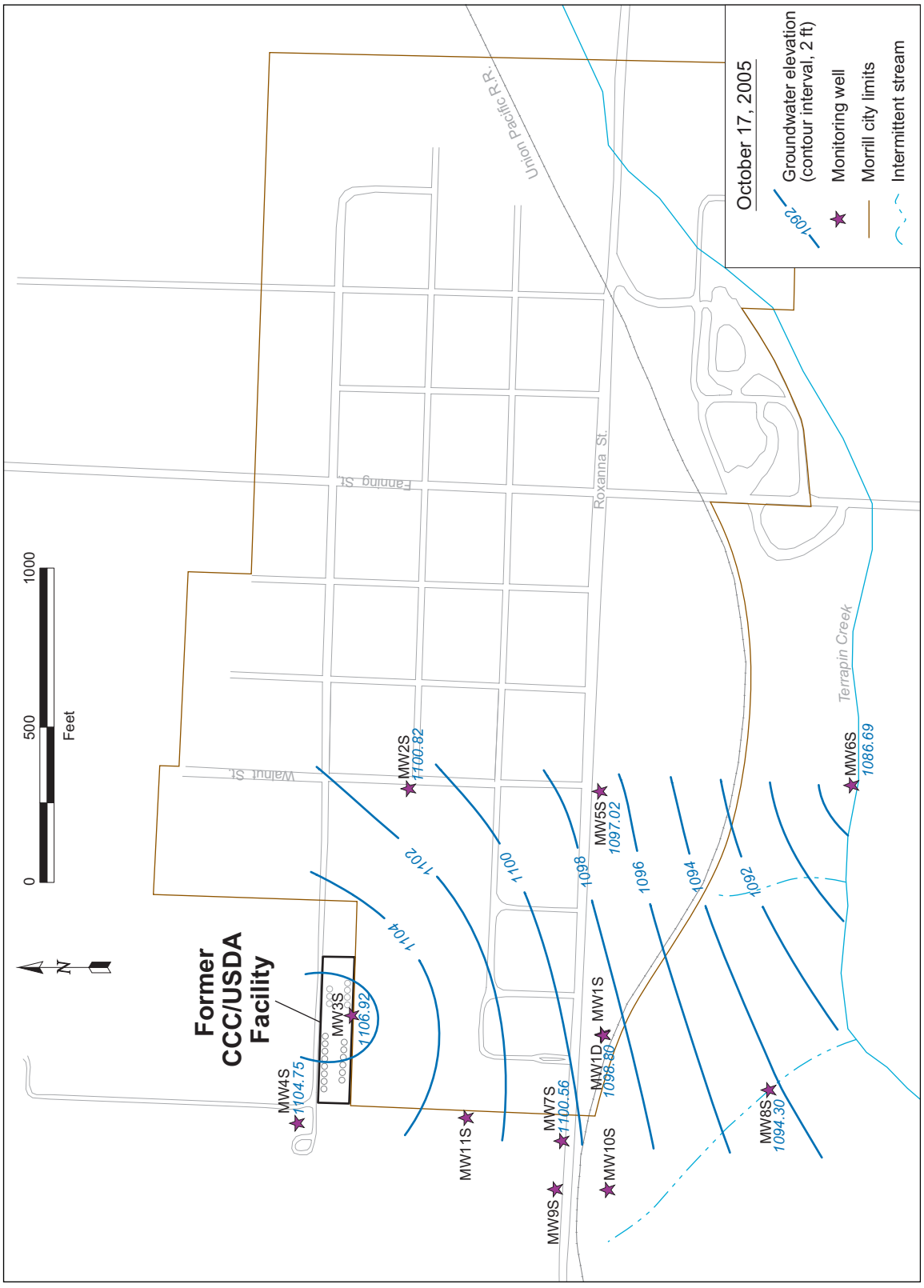

FIGURE 4.1 Potentiometric surface at Morrill, based on water levels measured manually on October 17, 2005.

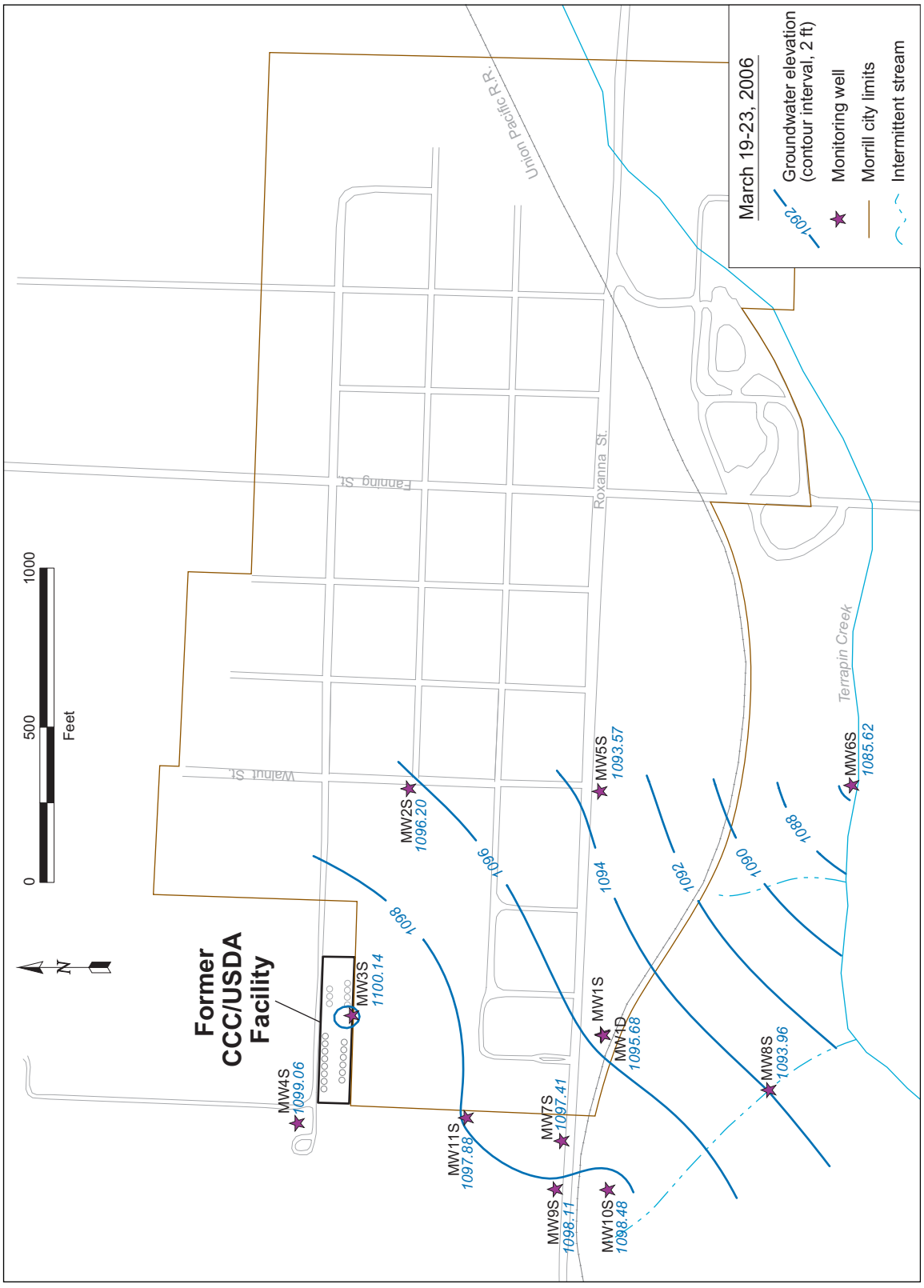

FIGURE 4.2 Potentiometric surface at Morrill, based on water levels measured manually on March 19–23, 2006.

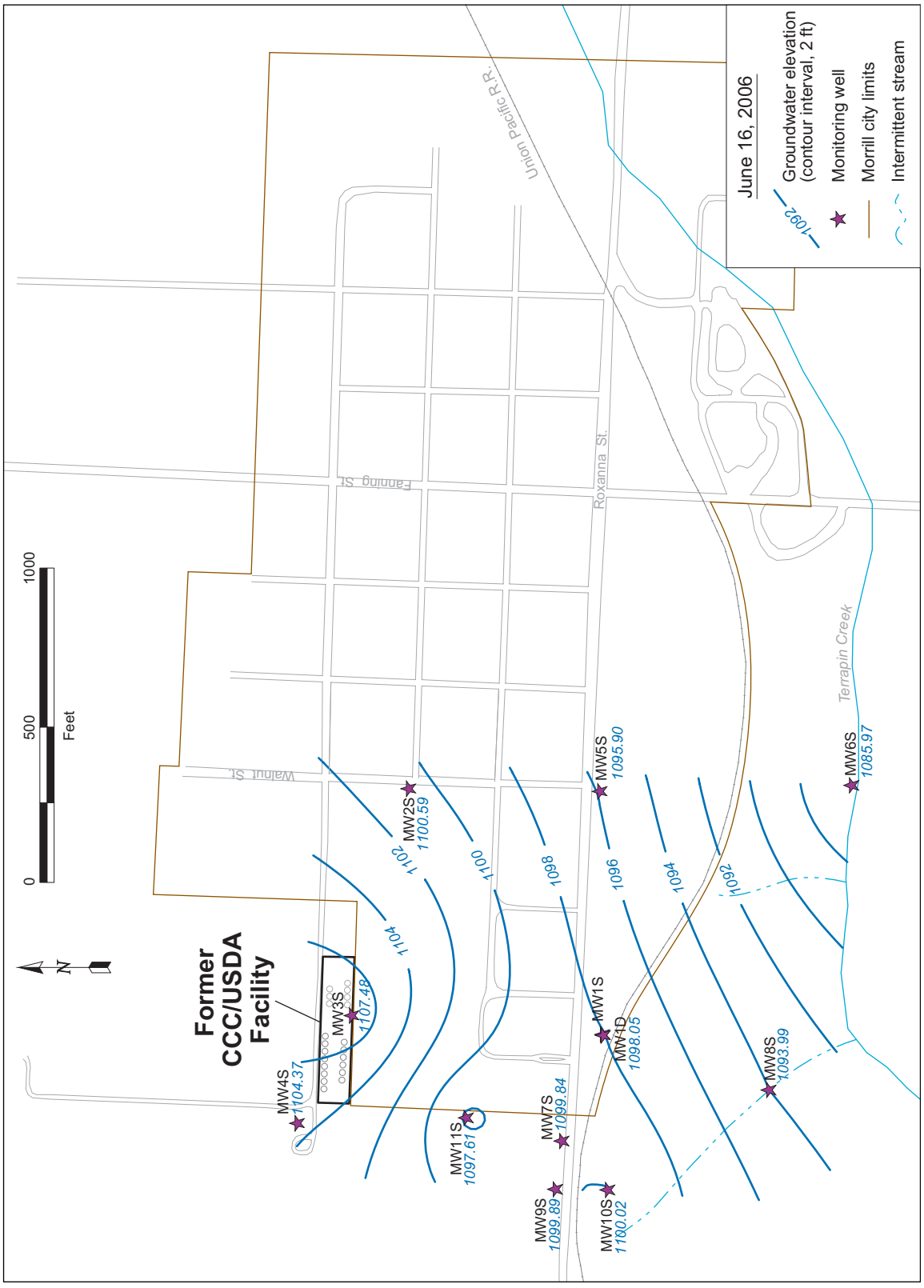

FIGURE 4.3 Potentiometric surface at Morrill, based on water levels measured manually on June 16, 2006.

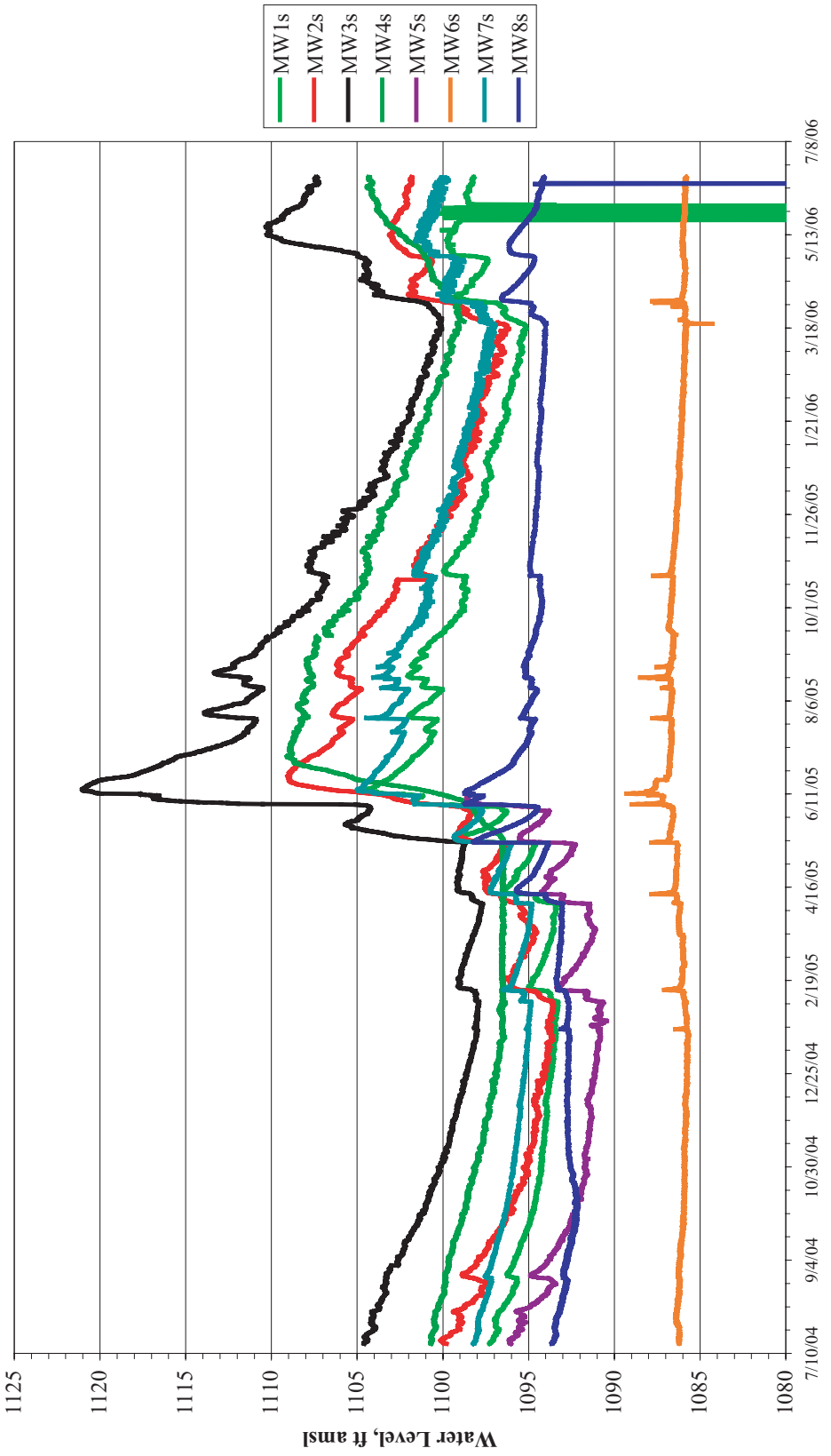

FIGURE 4.4 Hydrographs summarizing results of long-term water level monitoring in wells MW1S–MW8S at Morrill from July 15, 2004, to June 16, 2006.

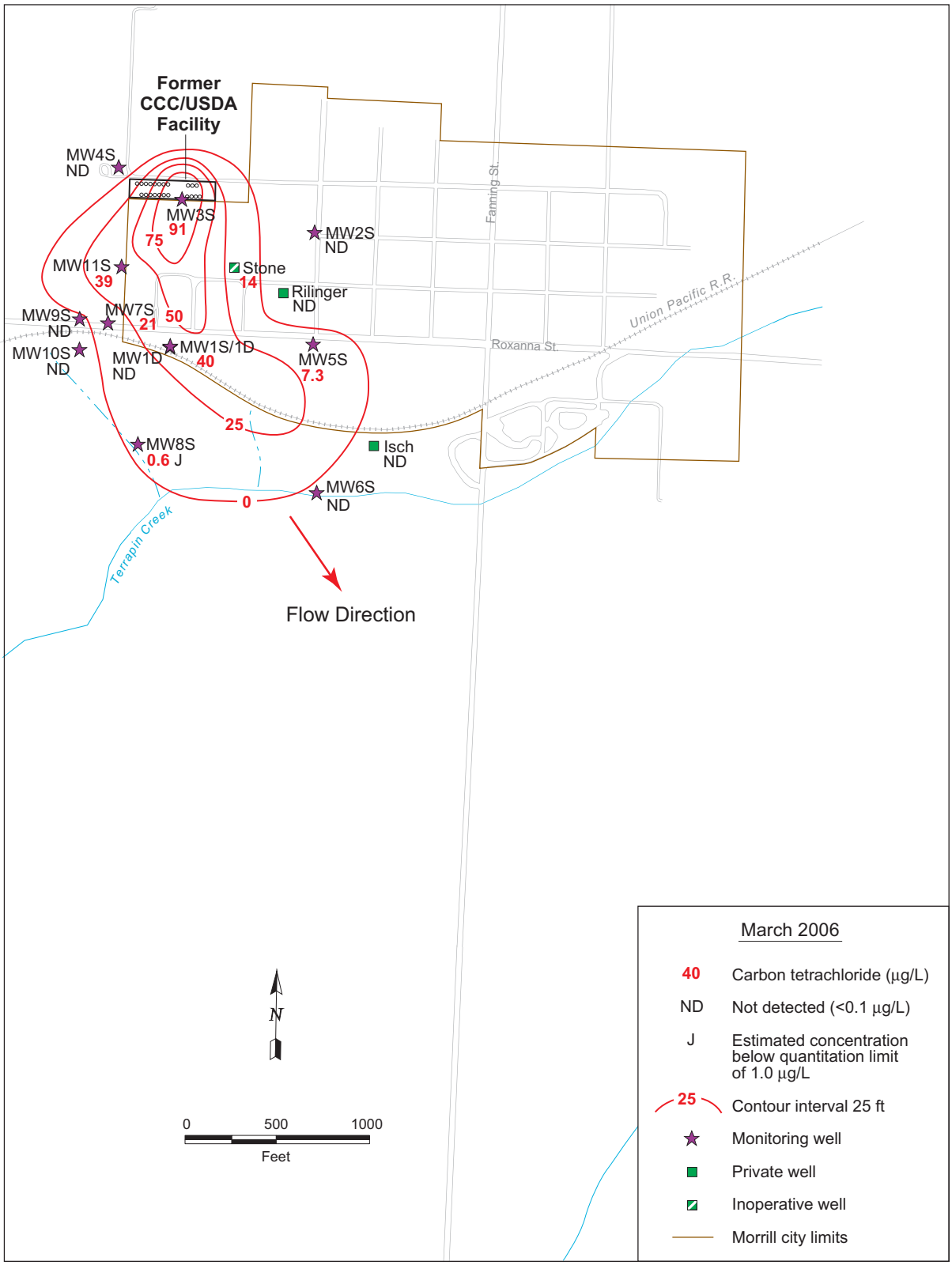

FIGURE 4.5 Lateral extent of the carbon tetrachloride contamination in groundwater at Morrill, as interpreted on the basis of sampling and analyses in March 2006 and flow direction on March 19–23, 2006.

5 Conclusion and Recommendations

5.1 Conclusions

The findings of the September 2005 and March 2006 monitoring events at Morrill support the following conclusions:

- The September 2005 results indicated that additional monitoring wells were needed to track migration along the western border of the plume.

- The March 2006 results, gathered after expansion of the monitoring network in January 2006, show minor decreases or increases in contaminant levels at various locations that do not fall into a clear pattern. However, the results do indicate continued migration of the carbon tetrachloride plume toward Terrapin Creek. Trace levels of carbon tetrachloride (< 1 µg/L) in MW8S indicate that the leading edge of the plume is approaching the intermittent stream leading to Terrapin Creek.

- Hand-measured groundwater levels on four occasions in 2005 and 2006 were consistent with each other and with results from two measurements in 2004, indicating a groundwater flow direction to the south-southeast from the former CCC/USDA facility.

- Long-term measurements of groundwater levels in wells MW1S–MW8S, from July 15, 2004, to June 16, 2006, indicate that water levels in two relatively upgradient wells near the former CCC/USDA facility (MW3S and MW2S) responded distinctly to apparent rainfall/recharge events. In contrast, levels in two downgradient wells south of the former facility (MW6S and MW8S) showed virtually no response, probably because of the damping influence of the nearby surface drainages and shallow groundwater at these locations.

- Preliminary screening of groundwater parameters provided inadequate evidence that reductive dechlorination of carbon tetrachloride is taking place at selected locations on the former CCC/USDA property.

- The September 2005 and March 2006 monitoring events were the first and second in the planned series of twice yearly events, to run for at least two years (Argonne 2005a). Subsequent monitoring events are planned for September 2006, March 2007, and September 2007.

5.2 Recommendations

The following recommendations are based on the results reported here and previous work at Morrill:

- The monitoring program should continue as approved by the KDHE (Argonne 2005a).

- Surface water samples should be collected during future monitoring events.

6 References

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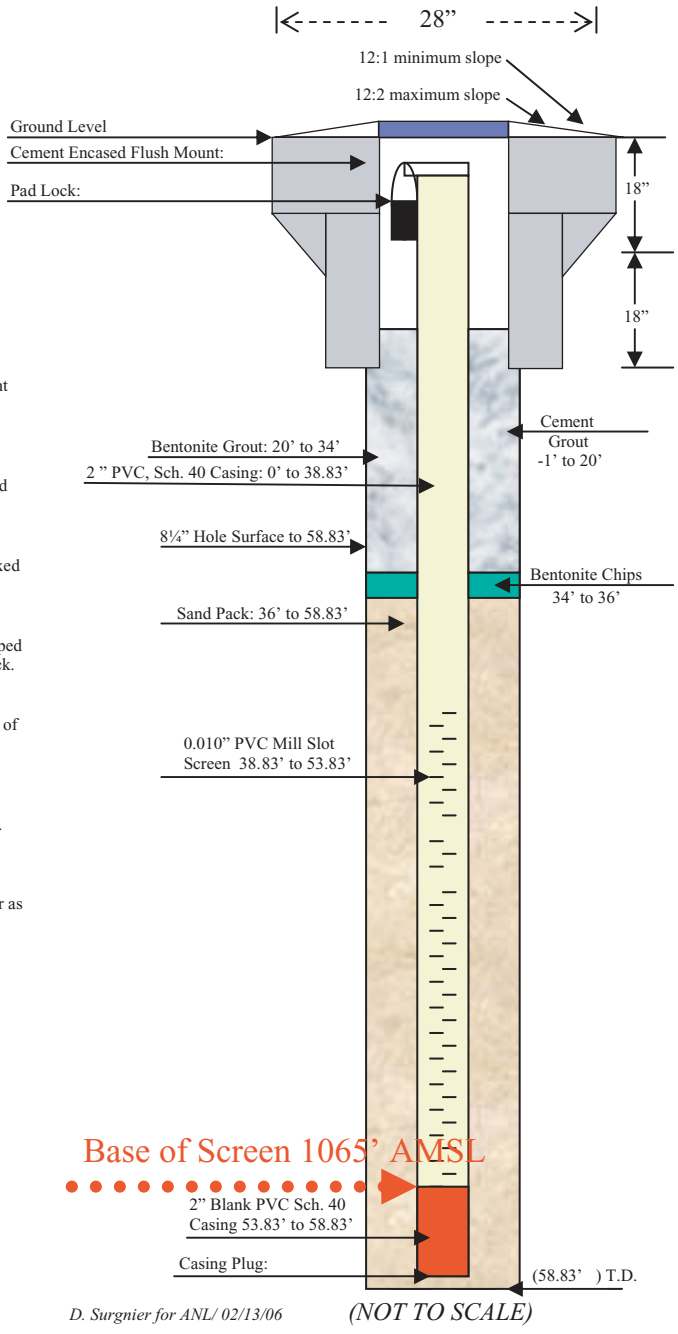
Appendix A:

Well Construction Diagrams and Registration Forms

Monitor Well MW-09S

Morrill, KS

SW, SW, SE of Section 26, Township 1 South, Range 15 East
Brown County, Kansas
Date: 01/24/06



WELL HEAD PROTECTION
12” Morrison Brothers, Co. Model 418XA Flush mount cover. Top of casing fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and pad lock.

CONCRETE PAD
Is a minimum of 8” thick and is extend at least 8” larger than the Flush Mount (28” minimum). Sloped to prevent pooling of water, vegetation around well and allowing for placement of a survey pin.

IMPERVIOUS GROUT
The well is grouted with High Solids Bentonite grout, tremied as required, mixed with clean fresh water and having a minimum density of 9.4 lbs. per gallon.

WELL CASING
Well casing is terminate as high as possible inside the Flush Mount and be capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and pad lock.

HOLE SIZE
The hole is 8¼” in diameter from the surface to T.D. and grouted from the top of the sand pack to the base of the Flush Mount.

GRAVEL / SAND PACK
Gravel / Sand Pack is of 10/20 sand and is designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends the length at least 2’ above the screen.

CONTRACTOR LICENSING
All wells are constructed under the direction of a licensed water well contractor as specified under, Kansas Department of Health and Environment Regulation.

REGISTRATION
All wells will be registered with the Kansas Department of Health and Environment on form WWC-5 provided by that Department.

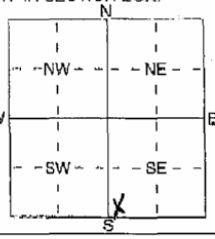
WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No.

1 LOCATION OF WATER WELL: County: Brown | Fraction: SW ¼ SW ¼ SE ¼ | Section Number: 26 | Township Number: T 1 S | Range Number: R 15 E/W

Distance and direction from nearest town or city street address of well if located within city?
Morrill, KS Near the west edge of City limits mw-09S

2 WATER WELL OWNER: USDA/ICC
RR#, St. Address, Box # : Stop 0513 - Room 4725
City, State, ZIP Code : 1400 Independence Ave SW Washington, DC 20250
Board of Agriculture, Division of Water Resources Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 58.83 ft. ELEVATION:
Depth(s) Groundwater Encountered 1 ..... ft. 2 ..... ft. 3 ..... ft.
WELL'S STATIC WATER LEVEL ..... ft. below land surface measured on mo/day/yr .....
Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm
Est. Yield ..... gpm: Well water was ..... ft. after ..... hours pumping ..... gpm
WELL WATER TO BE USED AS: 1 Domestic 2 Irrigation 3 Feedlot 4 Industrial 5 Public water supply 6 Oil field water supply 7 Domestic (lawn & garden) 8 Air conditioning 9 Dewatering 10 Monitoring well 11 Injection well 12 Other (Specify below)
Was a chemical/bacteriological sample submitted to Department? Yes ..... No .....; If yes, mo/day/yrs sample was submitted Water Well Disinfected? Yes No

5 TYPE OF BLANK CASING USED: 1 Steel 2 PVC 3 RMP (SR) 4 ABS 5 Wrought Iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)
CASING JOINTS: Glued ..... Clamped ..... Welded ..... Threaded Flush Thread
Blank casing diameter 2 in. to 38.83 ft., Dia 2 in. to 58.83' ft., Dia ..... in. to ..... ft.
Casing height above land surface 0 in., weight ..... lbs./ft. Wall thickness or guage No. Sch 40

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless Steel 4 Galvanized Steel 5 Fiberglass 6 Concrete tile 7 PVC 8 RMP (SR) 9 ABS 10 Asbestos-Cement 11 Other (Specify) 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 2 Louvered shutter 3 Mill slot 4 Key punched 5 Guazed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) 11 None (open hole)

SCREEN-PERFORATED INTERVALS: From 38.83' ft. to 53.83' ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 36' ft. to 59 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other .....
Grout Intervals: From 36 ft. to 34' ft., From 34' ft. to 20' ft., From 20' ft. to 3' Neat Cement ft.
What is the nearest source of possible contamination:
1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/Gas well 16 Other (specify below)
Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	15'	Brown Clay			
15'	25'	Brown Clay Some Silt			
25'	35'	Light Brown Silty Clay			
35'	45'	Gray Silty Clay			
45'	55'	Light Brown Clay			
55'	59'	Yellow Sand Medium to Coarse			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 1/24 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No 658 This Water Well Record was completed on (mo/day/yr) 2/16/06
under the business name of Bart Longyear Company by (signature) [signature]

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well.

Monitor Well Installation (MW-10S)
Morrill, KS

NW, NW, NE of Section 35, Township 1 South, Range 15 East
Brown County, Kansas
01/25/06

WELL HEAD PROTECTION
12" Morrison Brothers, Co. Model 418XA Flush mount cover. Top of casing fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and pad lock.

CONCRETE PAD
Is a minimum of 8" thick and extends at least 8" larger than the Flush Mount (28" minimum). Sloped to prevent pooling of water, vegetation around well and allows for placement of a surveyor pin.

IMPERVIOUS GROUT
The well is grouted with High Solids Bentonite and cement grout, tremied as required, mixed with clean fresh water and having a minimum density of 9.4 lbs/15.5. per gallon.

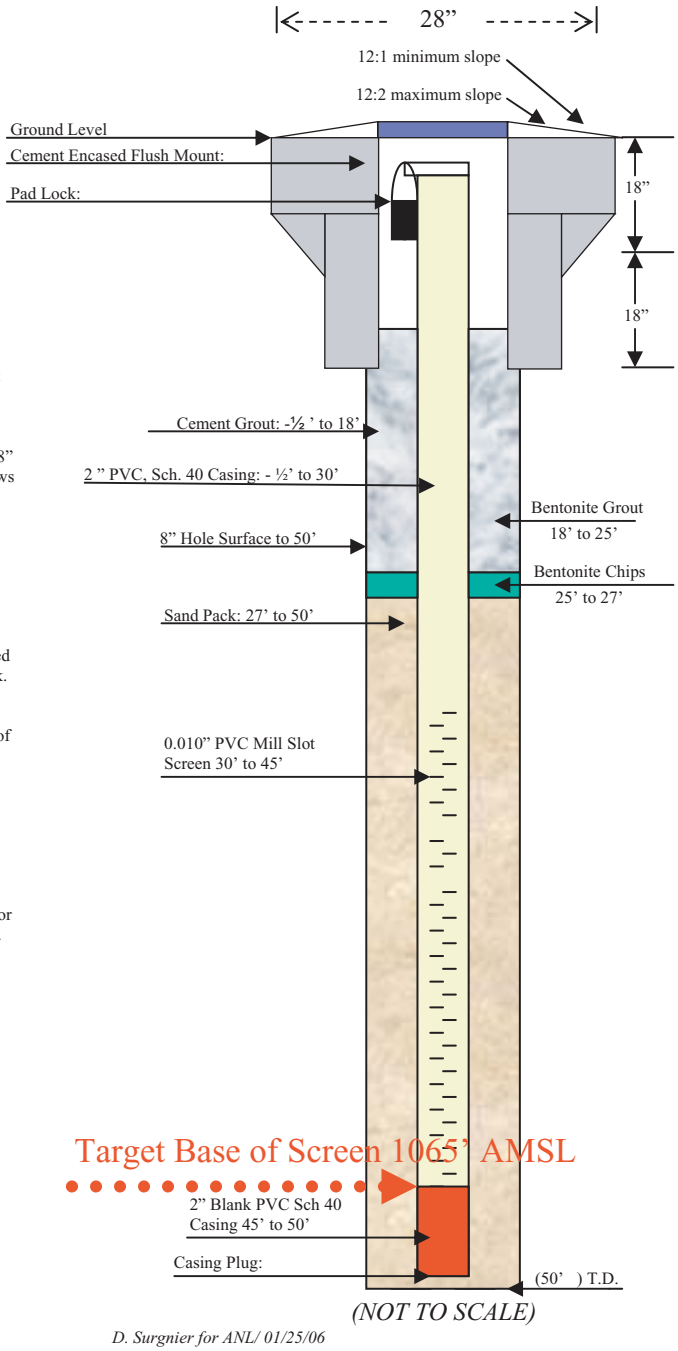
WELL CASING
Well casing is terminate as high as possible inside the Flush Mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and pad lock.

HOLE SIZE
The hole is 8¼" in diameter from the surface to T.D. and grouted from the top of the sand pack to the base of the Flush Mount.

GRAVEL / SAND PACK
Gravel / Sand Pack is of 10/20 sand and is designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends the length of the screen and at least 2' above the screen.

CONTRACTOR LICENSING
Well is constructed under the direction of a Kansas licensed water well contractor as specified under, Kansas Department of Health and Environment Regulation.

REGISTRATION
The well was constructed by a licensed Kansas Driller and registered with the Kansas Department of Health and Environment on form WWC-5.



(NOT TO SCALE)

D. Surgnier for ANL/ 01/25/06

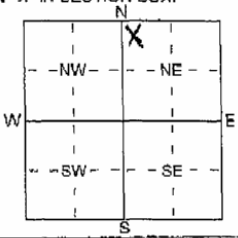
WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No.

1 LOCATION OF WATER WELL: County: Brown | Fraction: NW ¼ NW ¼ NE ¼ | Section Number: 35 | Township Number: T 1 S | Range Number: R 15 E/W

Distance and direction from nearest town or city street address of well if located within city?
Morrill, KS, Near west edge of city limits MW-10S

2 WATER WELL OWNER: USDA/ICE
RR#, St. Address, Box # : Stop 0513 - Room 4725
City, State, ZIP Code : 1400 Independence Ave SW Washington, DC 20250
Board of Agriculture, Division of Water Resources Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 50' ft. ELEVATION:
Depth(s) Groundwater Encountered 1 ..... ft. 2 ..... ft. 3 ..... ft.
WELL'S STATIC WATER LEVEL ..... ft. below land surface measured on mo/day/yr .....
Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm
Est. Yield ..... gpm: Well water was ..... ft. after ..... hours pumping ..... gpm
WELL WATER TO BE USED AS: 1 Domestic 2 Irrigation 3 Feedlot 4 Industrial 5 Public water supply 6 Oil field water supply 7 Domestic (lawn & garden) 8 Air conditioning 9 Dewatering (10) Monitoring well 11 Injection well 12 Other (Specify below)

Was a chemical/bacteriological sample submitted to Department? Yes ..... No .....; If yes, mo/day/yrs sample was submitted
Water Well Disinfected? Yes No

5 TYPE OF BLANK CASING USED: 1 Steel (2) PVC 3 RMP (SR) 4 ABS 5 Wrought iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)
CASING JOINTS: Glued ..... Clamped ..... Welded ..... Threaded Flush Thread

Blank casing diameter 2 in. to 30' ft., Dia 2 in. to 50' ft., Dia ..... in. to ..... ft.
Casing height above land surface 0 in., weight ..... lbs./ft. Wall thickness or guage No. Sch 40

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless Steel 4 Galvanized Steel 5 Fiberglass 6 Concrete tile (7) PVC 8 RMP (SR) 9 ABS 10 Asbestos-Cement 11 Other (Specify) ..... 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot (3) Mill slot 2 Louvered shutter 4 Key punched 5 Guazed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) ..... 11 None (open hole)

SCREEN-PERFORATED INTERVALS: From 30' ft. to 45' ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 27' ft. to 50' ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: (1) Neat cement 2 Cement grout (3) Bentonite 4 Other .....
Grout Intervals: From 27' ft. to 25' ft., From 25' ft. to 20' ft., From 20' ft. to 3' Neat Cement ft.

What is the nearest source of possible contamination:
1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/Gas well 16 Other (specify below) .....
Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	20'	Brown Clay Some Silt			
20'	40'	Light Brown Clay Some Silt			
40'	49'	Light Brown Clay			
49'	50'	Yellow Sand			

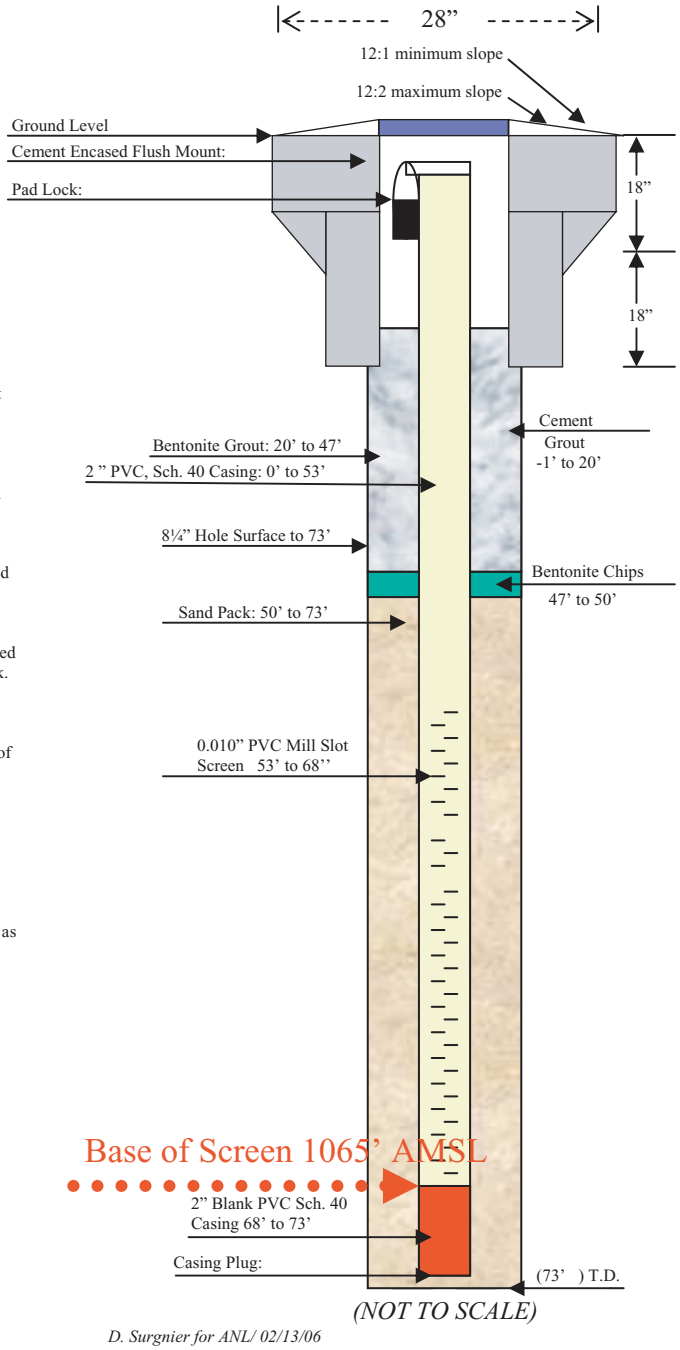
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 1/26/06 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No 658 This Water Well Record was completed on (mo/day/yr) 3/16/06 under the business name of Beart Longyear Company by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well.

Monitor Well MW-11S

Morrill, KS

SW, SW, SE of Section 26, Township 1 South, Range 15 East
Brown County, Kansas
Date: 01/25/06



D. Surgnier for ANL/ 02/13/06

WELL HEAD PROTECTION
12” Morrison Brothers, Co. Model 418XA Flush mount cover. Top of casing fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and pad lock.

CONCRETE PAD
Is a minimum of 8” thick and is extend at least 8” larger than the Flush Mount (28” minimum). Sloped to prevent pooling of water, vegetation around well and allowing for placement of a survey pin.

IMPERVIOUS GROUT
The well is grouted with High Solids Bentonite grout, tremied as required, mixed with clean fresh water and having a minimum density of 9.4 lbs. per gallon.

WELL CASING
Well casing is terminate as high as possible inside the Flush Mount and be capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and pad lock. 2” PVC Sch 40, threaded casing and Mill Slot (0.010”) well screen.

HOLE SIZE
The hole is 8¼” in diameter from the surface to T.D. and grouted from the top of the sand pack to the base of the Flush Mount.

GRAVEL / SAND PACK
Gravel / Sand Pack is of 10/20 sand and is designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends the length and at least 2’ above the screen.

CONTRACTOR LICENSING
All wells are constructed under the direction of a licensed water well contractor as specified under, Kansas Department of Health and Environment Regulation.

REGISTRATION
All wells will be registered with the Kansas Department of Health and Environment on form WWC-5 provided by that Department.

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No.

1 LOCATION OF WATER WELL: County: Brown | Fraction: SW ¼ SW ¼ SE ¼ | Section Number: 26 | Township Number: T 1 S | Range Number: R 15 E/W

Distance and direction from nearest town or city street address of well if located within city?
Morrill, KS. Near west edge of city limits MW-11S

2 WATER WELL OWNER: USDA/CCC
RR#, St. Address, Box # : Stop 0513 - Room 4725 1400 Independence Ave SW
City, State, ZIP Code : Washington, DC 20250
Board of Agriculture, Division of Water Resources Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: N, NW, NE, W, E, SW, SE, S, X

4 DEPTH OF COMPLETED WELL 73' ft. ELEVATION:
Depth(s) Groundwater Encountered 1 ..... ft. 2 ..... ft. 3 ..... ft.
WELL'S STATIC WATER LEVEL ..... ft. below land surface measured on mo/day/yr .....
Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm
Est. Yield ..... gpm: Well water was ..... ft. after ..... hours pumping ..... gpm
WELL WATER TO BE USED AS: 1 Domestic 2 Irrigation 3 Feedlot 4 Industrial 5 Public water supply 6 Oil field water supply 7 Domestic (lawn & garden) 8 Air conditioning 9 Dewatering (10) Monitoring well 11 Injection well 12 Other (Specify below)

Was a chemical/bacteriological sample submitted to Department? Yes ..... No .....; If yes, mo/day/yrs sample was submitted ..... Water Well Disinfected? Yes No

5 TYPE OF BLANK CASING USED: 1 Steel (2) PVC 3 RMP (SR) 4 ABS 5 Wrought iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below) .....
CASING JOINTS: Glued ..... Clamped ..... Welded ..... Threaded Flush Thread
Blank casing diameter 2 in. to 53' ft., Dia 2 in. to 73' ft., Dia ..... in. to ..... ft.
Casing height above land surface 0 in., weight ..... lbs./ft. Wall thickness or guage No. Sch 40

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless Steel 4 Galvanized Steel 5 Fiberglass 6 Concrete tile (7) PVC 8 RMP (SR) 9 ABS 10 Asbestos-Cement 11 Other (Specify) ..... 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot (2) Mill slot 3 Louvered shutter 4 Key punched 5 Gauzed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) ..... 11 None (open hole)

SCREEN-PERFORATED INTERVALS: From 53' ft. to 68' ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 50' ft. to 73' ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: (1) Neat cement 2 Cement grout (3) Bentonite 4 Other .....
Grout Intervals: From 50' ft. to 47' ft., From 47' ft. to 20' ft., From 20' ft. to 3' Neat cement ft.

What is the nearest source of possible contamination:
1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/Gas well 16 Other (specify below) .....
Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	20'	Brown Clay			
20'	30'	Brown Clay Some Silt			
30'	55'	Light Brown Clay Some Silt			
55'	60'	Grey Clay Some Silt			
60'	74'	Brown Silty Clay			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 1/25/06 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No 658 This Water Well Record was completed on (mo/day/yr) 3/16/06
under the business name of Beart Longyear Company by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367 Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well.

Appendix B:

Chronological Summary of Activities at Morrill in September 2005–March 2006

TABLE B.1 Field log sequence of sampling activities in 2005–2006 at Morrill, Kansas.

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
September 2005 Sampling Event									
09/12/05	17:50	MW7S	20–45	MRMW7S-W-19258	Water	MW	1089	2;126	Depth to water from top of casing (TOC) = 17.57 ft. Depth of well = 46.94 ft below TOC. Sample collected at low flow after purging of 55 gal with a Redi-Flo pump.
09/12/05	17:50	MW7S	20–45	MRMW7S-A-19258	Vapor	MW	1548B	2;126	Well vapor effluent sample for dissolved hydrogen analysis at Microseeps, Inc., in Pittsburgh, Pennsylvania, with Method AM20GAX.
09/13/05	9:00	MW1D	63–88	MRMW1D-W-16518	Water	MW	1089	2;122	Depth to water from TOC = 23.72 ft. Depth of well = 88.6 ft below TOC. Sample collected at low flow after purging of 200 gal with a Redi-Flo pump.
09/13/05	10:00	MW1S	11–51	MRMW1S-W-19259	Water	MW	1089	2;130	Depth to water from TOC = 24.16 ft. Depth of well = 53.9 ft below TOC. Sample collected at low flow after purging of 57 gal with a Redi-Flo pump.
09/13/05	10:00	MW1S	11–51	MRMW1S-A-19259	Vapor	MW	1548B	2;130	Well vapor effluent sample for dissolved hydrogen analysis.
09/13/05	12:00	QC	–	MRQCTB-W-16519[d]	Water	TB	1089	2;139	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 1089.
09/13/05	12:00	QC	–	MRQCTB-W-16520[d]	Water	TB	1095	2;139	Trip blank sent to Severn-Trent Laboratories (STL) for methane analysis with samples listed on COC 1095.
09/13/05	12:20	MW5S	15–55	MRMW5S-W-19260	Water	MW	1089	2;136	Depth to water from TOC = 22.66 ft. Depth of well = 54.20 ft below TOC. Sample collected at low flow after purging of 75 gal with a Redi-Flo pump.
09/13/05	12:20	MW5S	15–55	MRMW5S-A-19260	Vapor	MW	1548B	2;136	Well vapor effluent sample for dissolved hydrogen analysis.

TABLE B.1 (Cont.)

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
September 2005 Sampling Event (cont.)									
09/13/05	17:00	MW3S	18–48	MRMW3S-W-19261	Water	MW	1893	2;140	Depth to water from TOC = 25.60 ft. Depth of well = 47.6 ft below TOC. Sample collected at low flow after purging of 50 gal with a Redi-Flo pump.
09/13/05	17:00	MW3S	18–48	MRQCDU-W-16521[d]	Water	MW	1893	2;140	Replicate of sample MRMW3S-W-19261, collected without additional purging by using a Redi-Flo pump at low flow.
09/13/05	17:00	MW3S	18–48	MRMW3S-A-19261	Vapor	MW	1548B	2;140	Well vapor effluent sample for dissolved hydrogen analysis.
09/14/05	8:45	QC	–	MRQCTB-W-16522[d]	Water	TB	1893	2;153	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 1893.
09/14/05	8:45	QC	–	MRQCTB-W-16523[d]	Water	TB	1094	2;153	Trip blank sent to STL for methane analysis with samples listed on COC 1094.
09/14/05	8:55	MW6S	10–25	MRMW6S-W-19263	Water	MW	1893	2;150	Depth to water from TOC = 4.7 ft. Depth of well = 26.9 ft below TOC. Sample collected at low flow after purging of 43 gal with a Redi-Flo pump.
09/14/05	11:50	MW2S	13–53	MRMW2S-W-19264	Water	MW	1893	2;158	Depth to water from TOC = 33.68 ft. Depth of well = 53.33 ft below TOC. Sample collected at low flow after purging of 38 gal with a Redi-Flo pump.
09/14/05	11:50	MW2S	13–53	MRMW2S-A-19264	AE	MW	1548B	2;158	Well vapor effluent sample for dissolved hydrogen analysis.
09/14/05	12:00	QC	–	MRQCRI-W-16524[d]	Water	RI	1516	2;165	Rinsate of decontaminated Redi-Flo purge hose after sampling of MW2S.
09/14/05	12:30	MW4S	17–47	MRMW4S-W-19262	Water	MW	1893	2;146	Depth to water from TOC = 36.21 ft. Depth of well = 47.81 ft below TOC. Sample collected by using a bailer after purging of 8 gal with a Redi-Flo pump at 0.5 gpm.
09/14/05	12:30	MW4S	17–47	MRMW4S-A-19262	Vapor	MW	1548B	2;146	Well vapor effluent sample for dissolved hydrogen analysis.

TABLE B.1 (Cont.)

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
September 2005 Sampling Event (cont.)									
09/14/05	16:00	QC	–	MRQCWADR-W-16510[d]	Water	BT	1516	2;165	Composite sample of waste purge water accumulated during September 2005 sampling.
09/14/05	17:00	MW8S	10–25	MRMW8S-W-19265	Water	MW	1516	2;162	Depth to water from TOC = 4.02 ft. Depth of well = 26.82 ft below TOC. Sample collected by using a bailer after purging of 57 gal with a Redi-Flo pump.
09/14/05	17:35	QC	–	MRQCRI-W-16525[d]	Water	RI	1516	2;165	Rinsate of decontaminated bailer after sampling of MW8S.
09/14/05	17:40	QC	–	MRQCTB-W-16526[d]	Water	TB	1516	2;165	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 1516.
09/14/05	17:41	QC	–	MRQCTB-W-16527[d]	Water	TB	1515	2;165	Trip blank sent to STL for methane analysis with samples listed on COC 1515.
09/14/05	18:30	Stone	Unk[e]–43	MRPRSTON-W-16511	Water	DW	1516	2;166	Stone private well, 6 in. in diameter. Depth to water from TOC = 17.18 ft. Depth of well = 40 ft below TOC. Sample collected at low flow after purging of 60 gal with a Redi-Flo pump at 2.75 gpm.
09/14/05	18:50	Rillinger	Unk	MRPRILL-W-16512	Water	DW	1516	2;170	Rillinger lawn and garden well, 6-in.-diameter casing. Sampled from spigot after purging of approximately 60 gal. Pump prevented measurement of water level and well depth.
09/14/05	19:00	Isch	Unk	MRPRISCH-W-16513	Water	DW	1516	2;174	Private well on co-op property between equipment wash area and railroad tracks. Sample of water flowing from a cut in casing, collected by direct filling with no additional purging.
09/14/05	NR[f]	QC	–	H2-Trip Blank[d]	Vapor	TB	1548B	COC	Trip blank sent to Microseeps, Inc., for dissolved hydrogen analysis with samples listed on COC 1548B.

TABLE B.1 (Cont.)

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
February 2006 Monitoring Well Sampling after Installation on January 24–26, 2006									
02/01/06	18:00	QC	–	MRQCD-W-16548[d]	Water	FB	3242	3;5	Blank of water used during installation of monitoring wells MW09S, MW10S, and MW11S.
02/01/06	NR	QC	–	EVTB3-W-13226[d]	Water	TB	3242	COC	Trip blank sent to the AGEM Laboratory with samples listed on COC 3242.
02/14/06	10:49	MW9S	38.83–53.83	MR09S-G-16549[d]	Water	MW	4547	3;9	Well located at south fence line. Depth to water = 19.5 ft below TOC. Depth of well = 68.64 ft below TOC. Sample collected by using a bailer prior to development.
02/14/06	11:17	MW11S	53–68	MR11S-G-16550[d]	Water	MW	4547	3;13	Well located at west fence line. Depth to water = 37.35 ft below TOC. Depth of well = 73.60 ft below TOC. Sample collected by using a bailer prior to development.
02/14/06	11:29	MW11S	53–68	MR11S-G-16551[d]	Water	MW	4547	3;17	Replicate of sample MR11S-G-16550.
02/14/06	11:48	MW10S	30–45	MR10S-G-16552[d]	Water	MW	4547	3;21	Depth to water = 11.80 ft below TOC. Depth of well = 49.65 ft below TOC. Sample collected by using a bailer prior to development.
02/14/06	14:22	QC	–	MRCM-G-16553[d]	Water	BT	4547	3;25	Sample of combined development water from MW09S, MW10S, and MW11S.
02/14/06	15:57	QC	–	EVFB-W-13239[d]	Water	TB	4547	COC	Trip blank sent to the AGEM Laboratory with samples listed on COC 4547.
March 2006 Sampling Event									
03/19/06	9:50	MW1D	63–88	MRMW1D-W-19986	Water	MW	4515	2;177	Existing 4-in. deep well adjacent to city well pump house. Depth to water from TOC = 26.85 ft. Depth of well = 88.60 ft below TOC. Sample collected at low flow after purging of 112 gal with a Redi-Flo pump at 1.6 gpm.

TABLE B.1 (Cont.)

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
March 2006 Sampling Event (cont.)									
03/19/06	12:40	Stone	Unk–43	MRSTONE-W-19987	Water	DW	4515	2;181	Sample from 6-in.-diameter steel-cased well at James Stone residence. Depth to water from TOC = 17.42 ft. Depth of well = 40 ft below TOC. Sample collected at low flow after purging of 100 gal with a Redi-Flo pump at approximately 1 gpm.
03/19/06	13:00	Rillinger	Unk	MRRILINGER-W-19988	Water	DW	4515	2;185	Sample from 6-in.-diameter steel-cased well at Rillinger residence. Sample collected at spigot after approximately 5 min of purging.
03/20/06	10:35	MW6S	10–25	MRMW6S-W-19990	Water	MW	4515	2;189	Sample from existing 4-in. well south of co-op tank farm, adjacent to creek. Depth to water from TOC = 5.35 ft. Depth of well = 26.91 ft below TOC. Sample collected at low flow after purging of 43 gal with a Redi-Flo pump.
03/20/06	12:45	MW8S	10–25	MRMW8S-W-19991	Water	MW	4515	2;191	Sample from existing 4-in. well in bean field south of railroad. Depth to water from TOC = 4.57 ft. Depth of well = 26.41 ft below TOC. Sample collected at low flow after purging of 43 gal with a Redi-Flo pump.
03/20/06	12:45	QC	–	MRQCFB-W-19997[d]	Water	TB	4515	2;199	Trip blank sent to the AGEM Laboratory with samples listed on COC 4515.
03/20/06	12:45	QC	–	MRQCFB-W-19998[d]	Water	TB	4516	2;199	Trip blank sent to STL with samples listed on COC 4516 for attenuation parameter analysis.
03/21/06	10:50	MW2S	13–53	MRMW2S-W-19992	Water	MW	4210	2;201	Existing 4-in. well NW of intersection of Walnut St. and Elliot St. Depth to water from TOC = 40.87 ft. Depth of well = 53.32 ft below TOC. Sample collected at low flow after purging of 27 gal with a Redi-Flo pump at approximately 1 gpm.

TABLE B.1 (Cont.)

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
March 2006 Sampling Event (cont.)									
03/21/06	14:20	MW4S	17–47	MRMW4S-W-19993	Water	MW	4210	4;5	Existing 4-in. well NW of former CCC/USDA facility. Depth to water from TOC = 44.55 ft. Depth of well = 47.72 ft below TOC. Sample collected at low flow after purging of 6 gal with a Redi-Flo pump at approximately 1 gpm.
03/21/06	16:00	MW10S	30–45	MRMW10S-W-19999	Water	MW	4210	4;9	New 2-in. well on the north edge of the haul road south of railroad. Depth to water from TOC = 12.30 ft. Depth of well 49.60 ft below TOC. Sample collected at low flow after purging of 19 gal with a Redi-Flo pump.
03/21/06	16:20	QC	–	MRQCFB-W-20010[d]	Water	TB	4211	4;14	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 4211.
03/21/06	16:30	QC	–	MRQCFB-W-20011[d]	Water	TB	4210	4;14	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 4210.
03/22/06	9:10	MW9S	38.83–53.83	MRMW9S-W-20004	Water	MW	3771	4;17	New 2-in. well approximately 60 ft west of MW7S. Depth to water from TOC = 20.20 ft. Depth of well = 58.62 ft below TOC. Sample collected at low flow after purging of 20 gal with a Redi-Flo pump at approximately 1 gpm.
03/22/06	10:30	MW7S	20–45	MRMW7S-W-20000	Water	MW	3771	4;21	Existing 4-in. well in cornfield north of town, near highway. Depth to water from TOC = 22.45 ft. Depth of well = 46.98 ft below TOC. Sample collected at low flow after purging of 48 gal with a Redi-Flo pump at approximately 1 gpm.
03/22/06	11:25	MW11S	53–68	MRQCMW11S-W-20006[d]	Water	MW	3770	4;26	Aliquots of sample MRMW11S-W-20001 sent to Envirosystems (ENVSY) for verification organic analysis, collected without additional purging by using a Redi-Flo pump at low flow.

TABLE B.1 (Cont.)

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
March 2006 Sampling Event (cont.)									
03/22/06	11:25	MW11S	53–68	MRQCDU-W-20005	Water	MW	3772	4;26	Aliquots of sample MRMW11S-W-20001 sent to STL for inorganic and attenuation parameter analyses, collected without additional purging by using a Redi-Flo pump at low flow.
03/22/06	11:25	MW11S	53–68	MRMW11S-W-20001	Water	MW	3771	4;25	New 2-in. well approximately 150 ft north of fenced gate along east fence line. Depth to water from TOC = 35.2 ft. Depth of well = 72.5 ft below TOC. Sample collected at low flow after purging of 20 gal with a Redi-Flo pump at approximately 1 gpm.
03/22/06	11:25	MW11S	53–68	MRQCDU-W-20002[d]	Water	MW	3771	4;26	Replicate of sample MRMW11S-W-20001, collected without additional purging by using a Redi-Flo pump at low flow.
03/22/06	11:30	QC	–	MRQCRI-W-19995[d]	Water	RI	3771	4;26	Rinsate of decontaminated sampling tube after collection of samples at MW11S.
03/22/06	15:04	QC	–	MRQCFB-W-20007[d]	Water	TB	3770	4;26	Trip blank sent to ENVSY for verification organic analysis with MW11S sample listed on COC 3770.
03/22/06	15:10	MW5S	15–55	MRMW5S-W-19996	Water	MW	3771	4;29	Existing 4-in. well south of intersection of Walnut St. and Roxanna St. Depth to water from TOC = 28.64 ft. Depth of well = 54.51 ft below TOC. Sample collected at low flow after purging of 50 gal with a Redi-Flo pump at approximately 1.5 gpm.
03/22/06	16:30	MW1S	11–51	MRMW1S-W-20008	Water	MW	3771	4;33	Existing 4-in. shallow well adjacent to city well pump house. Depth to water from TOC = 29.00 ft. Depth of well = 53.95 ft below TOC. Sample collected at low flow after purging of 48 gal with a Redi-Flo pump at approximately 1 gpm.
03/22/06	16:30	QC	–	MRQCTB-W-20009[d]	Water	TB	4212	4;35	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 4212.

TABLE B.1 (Cont.)

Sample Date	Time	Location	Depth (ft below TOC)	Sample	Medium	Sample Type[a]	COC[b]	Log; Page[c]	Sample Description
March 2006 Sampling Event (cont.)									
03/22/06	16:45	QC	–	MRQCTB-W-20012[d]	Water	TB	3772	4;35	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 3772.
03/22/06	16:50	QC	–	MRQCTB-W-20013[d]	Water	TB	3771	4;35	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 3771.
03/23/06	8:35	MW3S	18–48	MRQCDU-W-20016[d]	Water	MW	3777	4;38	Aliquots of sample MRMW3S-W-19994 sent to STL for inorganic and attenuation parameter analyses, collected without additional purging by using a Redi-Flo pump at low flow.
03/23/06	8:35	MW3S	18–48	MRMW3S-W-19994	Water	MW	4285	4;37	Existing 4-in. well south of former CCC/USDA facility. Depth to water from TOC = 35.62 ft. Depth of well = 49.74 ft below TOC. Sample collected at low flow after purging of 28 gal with a Redi-Flo pump at approximately 1 gpm.
03/23/06	8:35	MW3S	18–48	MRQCDU-W-20014[d]	Water	MW	4285	4;38	Replicate of sample MRMW3S-W-19994, collected without additional purging by using a Redi-Flo pump at low flow.
03/23/06	8:50	QC	–	MRQCRI-W-20019[d]	Water	RI	4285	4;38	Rinsate of decontaminated sampling tube after collection of samples at MW3S.
03/23/06	9:30	Isch	Unk	MRISCH-W-19989	Water	DW	4285	4;41	Sample from private well on co-op property west of Fanning St., between the equipment wash area and the railroad tracks. Sample collected from spigot after purging of 20 gal.
03/23/06	10:15	QC	–	MRQCDR-W-20020[d]	Water	BT	4285	4;45	Composite sample of purge water containerized during the March 2006 sampling event.
03/23/06	18:15	QC	–	EVQCTB-W-20105[d]	Water	TB	4286	COC	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 4285 (Morrill and Everest samples) and COC 4286 (Everest samples).
03/23/06	18:30	QC	–	MRQCTB-W-20017[d]	Water	TB	3777	4;47	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 3777.

TABLE B.1 (Cont.)

[a] Sample types: BT, waste characterization; DW, domestic well; FB, field blank; MW, monitoring well; RI, rinsate; TB, trip blank.

[b] Chain-of-custody form number.

[c] Location of record in logbook; on file at Argonne.

[d] Quality control/quality assurance sample.

[e] Unk, unknown.

[f] NR, not recorded.

Appendix C:

Coordinates Survey Data

TABLE C.1 Survey coordinates for monitoring locations at Morrill, Kansas.

Well	Horizontal Location[a] (ft) Easting	Northing	Elevation[b] (ft AMSL) Representive Ground Surface	Reference[c]
Monitoring Locations Installed by the KDHE–GeoCore in 1995				
MW1S	1957316.76	589130.20	–	1124.68
MW1D	1957314.45	589129.06	–	1124.63
MW2S	1958063.43	589789.61	–	1137.07
MW3S	1957333.78	589929.06	–	1135.76
MW4S	1956982.15	590083.24	–	1143.61
MW5S	1958089.03	589182.24	–	1122.21
Monitoring Locations Installed by CCC/USDA–Argonne during Phase I–Phase II in 2004				
MW6S	1958149.44	588385.33	1091.4	1090.97
MW7S	1956967.99	589238.96	1120.4	1119.86
MW8S	1957169.82	588590.43	1099.0	1098.53
Monitoring Locations Installed by CCC/USDA–Argonne during Monitoring in 2006				
MW9S	1956819.91	589243.57	1118.0	1118.31
MW10S	1956829.05	589081.48	1110.4	1110.78
MW11S	1957031.81	589542.25	1132.8	1133.08

[a] Horizontal coordinates are target location centers. Northings and eastings are Kansas State Plane Coordinates. Horizontal datum is North American Datum (NAD) 83.

[b] Vertical datum is National Geodetic Vertical Datum (NGVD) 88.

[c] Location for measurement of water level.

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Supplementary Material for Draft Report: Groundwater Monitoring at Morrill, Kansas, in September 2005 and March 2006, with Expansion of the Monitoring Network in January 2006

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Contents:

S1_watersamples.pdf	Supplement 1: Groundwater Sample Data
S2_waterlevels.pdf	Supplement 2: Water Level Data
S3_qualitycontrol.pdf	Supplement 3: Quality Control for Sample Collection, Handling, and Analysis
S4_COC-analytics.pdf	Supplement 4: Chain-of-Custody Forms and Outside Laboratory Data
S5_WasteCharacterization.pdf	Supplement 5: Waste Characterization Data and Disposal Authorization

September 2006

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Supplement 1:

Groundwater Sample Data

TABLE S1.1 Groundwater samples collected during 2005–2006 monitoring at Morrill, Kansas.

Location	Sample	Depth (ft below TOC)	Sample Date	Medium	Type[a]	Sample Description
September 2005 Sampling Event						
MW1S	MRMW1S-W-19259	11–51	09/13/05	Water	MW	Depth to water from TOC = 24.16 ft. Depth of well = 53.9 ft below TOC. Sample collected after purging of 57 gal.
MW1D	MRMW1D-W-16518	63–88	09/13/05	Water	MW	Depth to water from TOC = 23.72 ft. Depth of well = 88.6 ft below TOC. Sample collected after purging of 200 gal.
MW2S	MRMW2S-W-19264	13–53	09/14/05	Water	MW	Depth to water from TOC = 33.68 ft. Depth of well = 53.33 ft below TOC. Sample collected after purging of 38 gal.
MW3S	MRMW3S-W-19261	18–48	09/13/05	Water	MW	Depth to water from TOC = 25.60 ft. Depth of well = 47.6 ft below TOC. Sample collected after purging of 50 gal.
MW4S	MRMW4S-W-19262	17–47	09/14/05	Water	MW	Depth to water from TOC = 36.21 ft. Depth of well = 47.81 ft below TOC. Sample collected after purging of 8 gal.
MW5S	MRMW5S-W-19260	15–55	09/13/05	Water	MW	Depth to water from TOC = 22.66 ft. Depth of well = 54.20 ft below TOC. Sample collected after purging of 75 gal.
MW6S	MRMW6S-W-19263	10–25	09/14/05	Water	MW	Depth to water from TOC = 4.7 ft. Depth of well = 26.9 ft below TOC. Sample collected after purging of 43 gal.
MW7S	MRMW7S-W-19258	20–45	09/12/05	Water	MW	Depth to water from TOC = 17.57 ft. Depth of well = 46.94 ft below TOC. Sample collected after purging of 55 gal.
MW8S	MRMW8S-W-19265	10–25	09/14/05	Water	MW	Depth to water from TOC = 4.02 ft. Depth of well = 26.82 ft below TOC. Sample collected after purging of 57 gal.
Isch	MRPRISCH-W-16513	Unk[b]	09/14/05	Water	DW	Private well on co-op property between equipment wash area and railroad tracks.
Rillinger	MRPRILL-W-16512	Unk	09/14/05	Water	DW	Rillinger lawn and garden well, 6-in.-diameter casing. Sampled from spigot. Pump prevented measurement of water level and well depth.
Stone	MRPRSTON-W-16511	Unk–43	09/14/05	Water	DW	Stone private well, 6 in. in diameter. Depth to water from TOC = 17.18 ft. Depth of well = 40 ft below TOC.
MW1S	MRMW1S-A-19259	11–51	09/13/05	Vapor	MW	Well vapor effluent sample for dissolved hydrogen analysis.
MW2S	MRMW2S-A-19264	13–53	09/14/05	Vapor	MW	Well vapor effluent sample for dissolved hydrogen analysis.
MW3S	MRMW3S-A-19261	18–48	09/13/05	Vapor	MW	Well vapor effluent sample for dissolved hydrogen analysis.
MW4S	MRMW4S-A-19262	17–47	09/14/05	Vapor	MW	Well vapor effluent sample for dissolved hydrogen analysis.
MW5S	MRMW5S-A-19260	15–55	09/13/05	Vapor	MW	Well vapor effluent sample for dissolved hydrogen analysis.
MW7S	MRMW7S-A-19258	20–45	09/12/05	Vapor	MW	Well vapor effluent sample for dissolved hydrogen analysis.

TABLE S1.1 (Cont.)

Location	Sample	Depth (ft below TOC)	Sample Date	Medium	Type[a]	Sample Description
March 2006 Sampling Event						
MW1S	MRMW1S-W-20008	11–51	03/22/06	Water	MW	Existing 4-in. shallow well adjacent to city well pump house. Depth to water from TOC = 29.00 ft. Depth of well = 53.95 ft below TOC. Sample collected after purging of 48 gal at approximately 1 gpm.
MW1D	MRMW1D-W-19986	63–88	03/19/06	Water	MW	Existing 4-in. deep well adjacent to city well pump house. Depth to water from TOC = 26.85 ft. Depth of well = 88.60 ft below TOC. Sample collected after purging of 112 gal at 1.6 gpm.
MW2S	MRMW2S-W-19992	13–53	03/21/06	Water	MW	Existing 4-in. well NW of intersection of Walnut St. and Elliot St. Depth to water from TOC = 40.87 ft. Depth of well = 53.32 ft below TOC. Sample collected after purging of 27 gal at approximately 1 gpm.
MW3S	MRMW3S-W-19994	18–48	03/23/06	Water	MW	Existing 4-in. well south of former CCC/USDA facility. Depth to water from TOC = 35.62 ft. Depth of well = 49.74 ft below TOC. Sample collected after purging of 28 gal at approximately 1 gpm.
MW4S	MRMW4S-W-19993	17–47	03/21/06	Water	MW	Existing 4-in. well NW of former CCC/USDA facility. Depth to water from TOC = 44.55 ft. Depth of well = 47.72 ft below TOC. Sample collected after purging of 6 gal at approximately 1 gpm.
MW5S	MRMW5S-W-19996	15–55	03/22/06	Water	MW	Existing 4-in. well south of intersection of Walnut St. and Roxanna St. Depth to water from TOC = 28.64 ft. Depth of well = 54.51 ft below TOC. Sample collected after purging of 50 gal at approximately 1.5 gpm.
MW6S	MRMW6S-W-19990	10–25	03/20/06	Water	MW	Sample from existing 4-in. well south of co-op tank farm, adjacent to creek. Depth to water from TOC = 5.35 ft. Depth of well = 26.91 ft below TOC. Sample collected after purging of 43 gal.
MW7S	MRMW7S-W-20000	20–45	03/22/06	Water	MW	Existing 4-in. well in cornfield north of town near highway. Depth to water from TOC = 22.45 ft. Depth of well = 46.98 ft below TOC. Sample collected after purging of 48 gal at approximately 1 gpm.
MW8S	MRMW8S-W-19991	10–25	03/20/06	Water	MW	Sample from existing 4-in. well in bean field south of railroad. Depth to water from TOC = 4.57 ft. Depth of well = 26.41 ft below TOC. Sample collected after purging of 43 gal.
MW9S	MRMW9S-W-20004	38.83–53.83	03/22/06	Water	MW	New 2-in. well approximately 60 ft west of MW7S. Depth to water from TOC = 20.20 ft. Depth of well = 58.62 ft below TOC. Sample collected after purging of 20 gal at approximately 1 gpm.

TABLE S1.1 (Cont.)

Location	Sample	Depth (ft below TOC)	Sample Date	Medium	Type[a]	Sample Description
March 2006 Sampling Event (cont.)						
MW10S	MRMW10S-W-19999	30–45	03/21/06	Water	MW	New 2-in. well on the north edge of the haul road south of railroad tracks. Depth to water from TOC = 12.30 ft. Depth of well = 49.60 ft below TOC. Sample collected after purging of 19 gal.
MW11S	MRMW11S-W-20001	53–68	03/22/06	Water	MW	New 2-in. well approximately 150 ft north of fenced gate along east fence line. Depth to water from TOC = 35.2 ft. Depth of well = 72.5 ft below TOC. Sample collected after purging of 20 gal at approximately 1 gpm.
Isch	MRISCH-W-19989	Unk	03/23/06	Water	DW	Sample from private well on co-op property west of Fanning St. between the equipment wash area and the railroad tracks. Sample collected from spigot after purging of 20 gal.
Rillinger	MRRILINGER-W-19988	Unk	03/19/06	Water	DW	Sample from 6-in. diameter steel-cased well at Rillinger residence. Sample collected at spigot after approximately 5 min of purging.
Stone	MRSTONE-W-19987	Unk–43	03/19/06	Water	DW	Sample from 6-in. diameter steel-cased well at James Stone residence. Depth to water from TOC = 17.42 ft. Depth of well = 40 ft below TOC. Sample collected after purging of 100 gal at approximately 1 gpm.

[a] Sample types: DW, domestic well; MW, monitoring well.

[b] Unk, unknown.

TABLE S1.2 Field measurements made during groundwater monitoring at Morrill, Kansas, in September 2005 through March 2006.

Location	Sample	Depth (ft below TOC)	Sample Date	Type[a]	Temperature (°C)	pH	Conductivity (µS/cm)	Concentration (mg/L) Dissolved Oxygen	Carbon Dioxide	Iron(II)	Oxidation Reduction Potential (mV)
September 2005 Sampling Event											
MW1S	MRMW1S-W-19259	11–51	9/13/05	MW	15.3	6.95	1174	7.17	55	0.00	200
MW1D	MRMW1D-W-16518	63–88	9/13/05	MW	15.5	6.56	2470	NR[b]	NR	NR	NR
MW2S	MRMW2S-W-19264	13–53	9/14/05	MW	15.2	6.94	801	7.85	65	NR	142
MW3S	MRMW3S-W-19261	18–48	9/13/05	MW	14.6	7.13	663	8.82	100	0.00	223
MW4S	MRMW4S-W-19262	17–47	9/14/05	MW	15.4	7.30	751	8.00	50	0.00	174
MW5S	MRMW5S-W-19260	15–55	9/13/05	MW	16.0	7.04	763	13.9	60	0.00	228
MW6S	MRMW6S-W-19263	10–25	9/14/05	MW	14.1	7.06	2350	0.01	60	0.00	54
MW7S	MRMW7S-W-19258	20–45	9/12/05	MW	15.0	7.26	760	8.35	50	0.00	240
MW8S	MRMW8S-W-19265	10–25	9/14/05	MW	14.1	7.30	853	0.02	40	0.00	65
Rillinger	MRPRILL-W-16512	Unk[c]	9/14/05	DW	NR	NR	NR	NR	NR	NR	NR
Stone	MRPRSTON-W-16511	Unk–43	9/14/05	DW	17.3	6.81	638	NR	NR	NR	NR
Isch	MRPRISCH-W-16513	Unk	9/14/05	DW	20.4	6.73	2300	NR	NR	NR	NR
March 2006 Sampling Event											
MW1S	MRMW1S-W-20008	11–51	3/22/06	MW	15.5	7.23	927	9.94	40	0.01	220
MW1D	MRMW1D-W-19986	63–88	3/19/06	MW	12.9	6.95	2460	5.11	NR	0.00	230
MW2S	MRMW2S-W-19992	13–53	3/21/06	MW	13.0	7.07	863	9.40	25	0.14	262
MW3S	MRMW3S-W-19994	18–48	3/23/06	MW	8.9	7.16	662	6.74	25	0.08	269
MW4S	MRMW4S-W-19993	17–47	3/21/06	MW	6.7	7.25	729	10.9	25	0.00	154
MW5S	MRMW5S-W-19996	15–55	3/22/06	MW	13.9	7.25	781	4.52	35	0.06	234
MW6S	MRMW6S-W-19990	10–25	3/20/06	MW	9.8	6.91	2360	1.37	60	0.38	89
MW7S	MRMW7S-W-20000	20–45	3/22/06	MW	15.2	7.32	740	5.52	25	0.03	268
MW8S	MRMW8S-W-19991	10–25	3/20/06	MW	12.5	7.04	954	0.90	30	0.05	153
MW9S	MRMW9S-W-20004	38.83–53.83	3/22/06	MW	14.6	7.17	715	0.41	35	0.00	25
MW10S	MRMW10S-W-19999	30–45	3/21/06	MW	6.3	7.11	701	2.10	40	0.01	88
MW11S	MRMW11S-W-20001	53–68	3/22/06	MW	14.8	7.33	762	9.40	30	0.06	237
Rillinger	MRRILINGER-W-19988	Unk	3/19/06	DW	11.9	7.05	2550	NR	NR	NR	NR
Stone	MRSTONE-W-19987	Unk–43	3/19/06	DW	12.9	6.42	650	NR	NR	0.00	213
Isch	MRISCH-W-19989	Unk	3/23/06	DW	13.0	7.23	9400	NR	NR	NR	NR

[a] Sample types: DW, domestic well; MW, monitoring well.

[b] NR, not recorded.

[c] Unk, unknown.

TABLE S1.3 Results of organic analyses at the AGEM Laboratory for monitoring samples collected at Morrill, Kansas, in September 2005 and March 2006.

Location	Sample	Depth (ft below TOC	Sample Date	Type[a]	Concentration (µg/L) Carbon Tetrachloride	Chloroform	Methylene Chloride
September 2005 Sampling Event							
MW1S	MRMW1S-W-19259	11–51	9/13/05	MW	35	1.7	ND[b]
MW1D	MRMW1D-W-16518	63–88	9/13/05	MW	ND	ND	ND
MW2S	MRMW2S-W-19264	13–53	9/14/05	MW	ND	ND	ND
MW3S	MRMW3S-W-19261	18–48	9/13/05	MW	101	3.2	ND
MW4S	MRMW4S-W-19262	17–47	9/14/05	MW	ND	ND	ND
MW5S	MRMW5S-W-19260	15–55	9/13/05	MW	6.3	0.2 J[c]	ND
MW6S	MRMW6S-W-19263	10–25	9/14/05	MW	ND	ND	ND
MW7S	MRMW7S-W-19258	20–45	9/12/05	MW	43	1.1	ND
MW8S	MRMW8S-W-19265	10–25	9/14/05	MW	0.9 J	ND	ND
Isch	MRPRISCH-W-16513	Unk[d]	9/14/05	DW	ND	ND	ND
Rillinger	MRPRILL-W-16512	Unk	9/14/05	DW	2.6	0.1 J	ND
Stone	MRPRSTON-W-16511	Unk–43	9/14/05	DW	2.6	0.3 J	ND
March 2006 Sampling Event							
MW1S	MRMW1S-W-20008	11–51	3/22/06	MW	40	1.8	ND
MW1D	MRMW1D-W-19986	63–88	3/19/06	MW	ND	ND	0.4 J B[e]
MW2S	MRMW2S-W-19992	13–53	3/21/06	MW	ND	ND	ND
MW3S	MRMW3S-W-19994	18–48	3/23/06	MW	91	2.6	ND
MW4S	MRMW4S-W-19993	17–47	3/21/06	MW	ND	ND	ND
MW5S	MRMW5S-W-19996	15–55	3/22/06	MW	7.3	0.2 J	ND
MW6S	MRMW6S-W-19990	10–25	3/20/06	MW	ND	ND	ND
MW7S	MRMW7S-W-20000	20–45	3/22/06	MW	21	0.4 J	ND
MW8S	MRMW8S-W-19991	10–25	3/20/06	MW	0.6 J	ND	0.4 J B
MW9S	MRMW9S-W-20004	38.83–53.83	3/22/06	MW	ND	ND	ND
MW10S	MRMW10S-W-19999	30–45	3/21/06	MW	ND	ND	ND
MW11S	MRMW11S-W-20001	53–68	3/22/06	MW	39	0.9 J	ND
Isch	MRISCH-W-19989	Unk	3/23/06	DW	ND	ND	ND
Rillinger	MRRILINGER-W-19988	Unk	3/19/06	DW	ND	ND	0.4 J B
Stone	MRSTONE-W-19987	Unk–43	3/19/06	DW	14	0.8 J	0.4 J B

[a] Sample types: DW, domestic water; MW, monitoring well.

[b] ND, not detected at the instrument detection limit of 0.1 µg/L.

[c] Qualifier J indicates an estimated concentration below the method quantitation limit of 1.0 µg/L.

[d] Unk, unknown.

[e] Qualifier B indicates that the compound was present in the method blank.

TABLE S1.4 Results of analyses for attenuation parameters at Severn-Trent Laboratories and Microseeps, Inc., on monitoring samples collected at Morrill, Kansas, in September 2005 and March 2006.

Location	Sample	Depth (ft below TOC)	Sample Date	Concentration (mg/L)							
				Total Alkalinity	Aluminum	Calcium	Chloride	Iron	Magnesium	Manganese	Nitrate
September 2005 Sampling Event											
MW1S	MRMW1S-W-19259	11–51	9/13/05	304	< 0.2	126	85.4	< 0.1	28.2	< 0.015	14.2
MW2S	MRMW2S-W-19264	13–53	9/14/05	289	< 0.2	130	11.0	< 0.1	21.4	< 0.015	18.2
MW3S	MRMW3S-W-19261	18–48	9/13/05	280	< 0.2	106	3.28	< 0.1	15.6	< 0.015	13.5
MW4S	MRMW4S-W-19262	17–47	9/14/05	292	< 0.2	92.5	10.3	< 0.1	34.1	< 0.015	20.8
MW5S	MRMW5S-W-19260	15–55	9/13/05	292	< 0.2	102	11.4	< 0.1	29.3	< 0.015	18.3
MW6S	MRMW6S-W-19263	10–25	9/14/05	261	< 0.2	481	27.2	< 0.1	104	0.330	< 0.4
MW7S	MRMW7S-W-19258	20–45	9/12/05	303	< 0.2	105	12.0	< 0.1	22.4	< 0.015	18.0
MW8S	MRMW8S-W-19265	10–25	9/14/05	285	NR[a]	NR	41.6	NR	NR	NR	10.4
March 2006 Sampling Event											
MW1S	MRMW1S-W-20008	11–51	3/22/06	311	< 0.2	120	87.0	< 0.1	27.8	< 0.015	15.2
MW2S	MRMW2S-W-19992	13–53	3/21/06	301	< 0.2	125	23.3	< 0.1	31.4	< 0.015	25.4
MW3S	MRMW3S-W-19994	18–48	3/23/06	287	< 0.2	90.5	3.85	< 0.1	15.5	< 0.015	15.2
MW4S	MRMW4S-W-19993	17–47	3/21/06	222	< 0.2	55.0	9.11	< 0.1	23.4	< 0.015	16.2
MW5S	MRMW5S-W-19996	15–55	3/22/06	297	< 0.2	99.1	13.1	< 0.1	28.4	< 0.015	22.0
MW6S	MRMW6S-W-19990	10–25	3/20/06	263	< 0.2	413	31.4	< 0.1	86.2	0.263	0.321
MW7S	MRMW7S-W-20000	20–45	3/22/06	304	< 0.2	96.9	9.76	< 0.1	20.4	< 0.015	19.8
MW8S	MRMW8S-W-19991	10–25	3/20/06	302	< 0.2	110	26.8	< 0.1	28.5	< 0.015	8.97
MW9S	MRMW9S-W-20004	38.83–53.83	3/22/06	350	< 0.2	76.9	5.97	< 0.1	33.7	0.0701	0.349
MW10S	MRMW10S-W-19999	30–45	3/21/06	351	< 0.2	86.3	6.07	< 0.1	32.6	0.0644	0.357
MW11S	MRMW11S-W-20001	53–68	3/22/06	316	< 0.2	90.5	8.22	< 0.1	30.5	< 0.015	21.8

TABLE S1.4 (Cont.)

Location	Sample	Depth (ft below TOC)	Sample Date	Concentration (mg/L)							
				Nitrite	Nitrogen	Phosphate	Phosphorus	Potassium	Silicon	Sodium	Sulfate
September 2005 Sampling Event											
MW1S	MRMW1S-W-19259	11–51	9/13/05	0.0212	14.5	< 0.20	< 0.25	< 5	7.52	41.1	31.1
MW2S	MRMW2S-W-19264	13–53	9/14/05	< 0.005	20.4	0.307	< 0.25	< 5	8.72	19.2	56.6
MW3S	MRMW3S-W-19261	18–48	9/13/05	< 0.005	14.6	0.374	< 0.25	< 5	7.04	25.9	28.0
MW4S	MRMW4S-W-19262	17–47	9/14/05	< 0.005	22.9	0.271	< 0.25	< 5	8.01	18.0	24.6
MW5S	MRMW5S-W-19260	15–55	9/13/05	0.0148	20.9	< 0.20	< 0.25	< 5	8.55	17.7	41.4
MW6S	MRMW6S-W-19263	10–25	9/14/05	< 0.005	< 0.01	0.272	< 0.25	< 5	10.0	34.2	1330
MW7S	MRMW7S-W-19258	20–45	9/12/05	< 0.005	19.8	< 0.20	< 0.25	< 5	7.53	26.7	23.3
MW8S	MRMW8S-W-19265	10–25	9/14/05	< 0.005	11.7	0.328	NR	NR	NR	NR	139
March 2006 Sampling Event											
MW1S	MRMW1S-W-20008	11–51	3/22/06	< 0.005	14.2	< 0.20	< 0.25	< 5	7.45	37.3	39.3
MW2S	MRMW2S-W-19992	13–53	3/21/06	< 0.005	25.2	< 0.20	< 0.25	< 5	8.29	18.8	51.0
MW3S	MRMW3S-W-19994	18–48	3/23/06	< 0.005	13.4	< 0.20	< 0.25	< 5	7.27	20.1	22.8
MW4S	MRMW4S-W-19993	17–47	3/21/06	< 0.005	15.2	< 0.20	< 0.25	< 5	5.85	12.9	18.2
MW5S	MRMW5S-W-19996	15–55	3/22/06	< 0.005	20.1	< 0.20	< 0.25	< 5	7.91	16.3	48.5
MW6S	MRMW6S-W-19990	10–25	3/20/06	0.0061	< 0.01	< 0.40	< 0.25	< 5	9.71	29.0	1560
MW7S	MRMW7S-W-20000	20–45	3/22/06	< 0.005	18.4	< 0.20	< 0.25	< 5	7.26	20.6	25.8
MW8S	MRMW8S-W-19991	10–25	3/20/06	0.0109	8.39	< 0.20	< 0.25	< 5	8.22	24.3	159
MW9S	MRMW9S-W-20004	38.83–53.83	3/22/06	0.0066	0.0427	< 0.20	< 0.25	< 5	8.71	23.6	57.1
MW10S	MRMW10S-W-19999	30–45	3/21/06	< 0.005	0.162	< 0.20	< 0.25	< 5	8.90	28.2	42.0
MW11S	MRMW11S-W-20001	53–68	3/22/06	0.0052	20.3	< 0.20	< 0.25	< 5	7.48	22.6	25.2

TABLE S1.4 (Cont.)

Location	Sample	Depth (ft below TOC)	Sample Date	Total Organic Carbon (mg/L)	Dissolved Hydrogen (nM)	Concentration (µg/L)		
						Ethane	Ethene	Methane
September 2005 Sampling Event								
MW1S	MRMW1S-W-19259	11–51	9/13/05	< 1.00	2.7	< 4	< 3	< 2
MW2S	MRMW2S-W-19264	13–53	9/14/05	< 1.00	2.4	< 4	< 3	< 2
MW3S	MRMW3S-W-19261	18–48	9/13/05	< 1.00	2.8	< 4	< 3	< 2
MW4S	MRMW4S-W-19262	17–47	9/14/05	< 1.00	8.5	< 4	< 3	< 2
MW5S	MRMW5S-W-19260	15–55	9/13/05	< 1.00	31	< 4	< 3	< 2
MW6S	MRMW6S-W-19263	10–25	9/14/05	< 1.00	NA[b]	< 4	< 3	< 2
MW7S	MRMW7S-W-19258	20–45	9/12/05	< 1.00	7.2	< 4	< 3	< 2
MW8S	MRMW8S-W-19265	10–25	9/14/05	< 1.00	NA	< 4	< 3	< 2
March 2006 Sampling Event								
MW1S	MRMW1S-W-20008	11–51	3/22/06	1.68	NA	< 4	< 3	< 2
MW2S	MRMW2S-W-19992	13–53	3/21/06	7.63	NA	< 4	< 3	< 2
MW3S	MRMW3S-W-19994	18–48	3/23/06	1.95	NA	< 4	< 3	< 2
MW4S	MRMW4S-W-19993	17–47	3/21/06	9.28	NA	< 4	< 3	< 2
MW5S	MRMW5S-W-19996	15–55	3/22/06	2.38	NA	< 4	< 3	< 2
MW6S	MRMW6S-W-19990	10–25	3/20/06	< 1.00	NA	< 4	< 3	< 2
MW7S	MRMW7S-W-20000	20–45	3/22/06	2.00	NA	< 4	< 3	< 2
MW8S	MRMW8S-W-19991	10–25	3/20/06	1.12	NA	< 4	< 3	< 2
MW9S	MRMW9S-W-20004	38.83–53.83	3/22/06	1.60	NA	< 4	< 3	< 2
MW10S	MRMW10S-W-19999	30–45	3/21/06	4.26	NA	< 4	< 3	< 2
MW11S	MRMW11S-W-20001	53–68	3/22/06	2.19	NA	< 4	< 3	< 2

[a] NR, not reported. Sample was filtered improperly; results are rejected as non-representative.

[b] NA, not analyzed for dissolved hydrogen.

Supplement 2:

Water Level Data

TABLE S2.1 Hand-measured water levels at Morrill, Kansas, in July 2004 through June 2006.

		July 15, 2004		August 31, 2004		March 18, 2005		September 12–14, 2005	
Well	Reference Elevation (ft AMSL)	Depth (ft below TOC)	Elevation (ft AMSL)	Depth (ft below TOC)	Elevation (ft AMSL)	Depth (ft below TOC)	Elevation (ft AMSL)	Depth (ft below TOC)	Elevation (ft AMSL)
MW1S	1124.68	27.37	1097.31	28.73	1095.95	31.03	1093.65	24.16	1100.52
MW1D	1124.63	27.40	1097.23	27.19	1097.44			23.72	1100.91
MW2S	1137.07	37.11	1099.96	39.07	1098.00	43.09	1093.98	33.68	1103.39
MW3S	1135.76	31.18	1104.58	33.13	1102.63	37.58	1098.18	25.60	1110.16
MW4S	1143.61	42.88	1100.73	43.94	1099.67	47.40	1096.21	36.21	1107.40
MW5S	1122.21	26.20	1096.01	28.16	1094.05	31.06	1091.15	22.66	1099.55
MW6S	1090.97	4.45	1086.52	4.54	1086.43	4.73	1086.24	4.70	1086.27
MW7S	1119.86	21.63	1098.23	22.64	1097.22			17.57	1102.29
MW8S	1098.53	4.84	1093.69	5.67	1092.86	5.43	1093.10	4.02	1094.51
MW9S	1118.31								
MW10S	1110.78								
MW11S	1133.08								

		October 17, 2005		March 19–23, 2006		June 16, 2006	
Well	Reference Elevation (ft AMSL)	Depth (ft below TOC)	Elevation (ft AMSL)	Depth (ft below TOC)	Elevation (ft AMSL)	Depth (ft below TOC)	Elevation (ft AMSL)
MW1S	1124.68	25.88	1098.80	29.00	1095.68	26.63	1098.05
MW1D	1124.63	24.11	1100.52	26.85	1097.78	25.65	1098.98
MW2S	1137.07	36.25	1100.82	40.87	1096.20	36.48	1100.59
MW3S	1135.76	28.84	1106.92	35.62	1100.14	28.28	1107.48
MW4S	1143.61	38.86	1104.75	44.55	1099.06	39.24	1104.37
MW5S	1122.21	25.19	1097.02	28.64	1093.57	26.31	1095.90
MW6S	1090.97	4.28	1086.69	5.35	1116.86	5.00	1085.97
MW7S	1119.86	19.30	1100.56	22.45	1097.41	20.02	1099.84
MW8S	1098.53	4.23	1094.30	4.57	1093.96	4.54	1093.99
MW9S	1118.31			20.20	1098.11	18.42	1099.89
MW10S	1110.78			12.30	1098.48	10.76	1100.02
MW11S	1133.08			35.20	1097.88	35.47	1097.61

TABLE S2.2 Automatically measured water levels at Morrill, July 15, 2004, to June 16, 2006.

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
7/15/2004 16:00	27.393	37.292	31.188	42.932	26.193		21.625	4.857
7/15/2004 20:00	27.418	37.219	31.154	42.897	26.171	4.772	21.642	4.921
7/16/2004 0:00	27.403	37.17	31.154	42.925	26.143	4.753	21.649	4.915
7/16/2004 4:00	27.413	37.113	31.15	42.913	26.108	4.743	21.657	4.911
7/16/2004 8:00	27.455	37.134	31.202	42.895	26.119	4.738	21.671	4.898
7/16/2004 12:00	27.472	37.115	31.214	42.929	26.13	4.732	21.682	4.93
7/16/2004 16:00	27.483	37.078	31.206	42.939	26.126	4.761	21.69	4.968
7/16/2004 20:00	27.49	37.053	31.234	42.906	26.132	4.755	21.705	4.994
7/17/2004 0:00	27.54	37.078	31.303	42.936	26.149	4.747	21.727	4.983
7/17/2004 4:00	27.55	37.036	31.303	42.929	26.132	4.733	21.735	4.966
7/17/2004 8:00	27.569	37.027	31.349	42.939	26.1	4.747	21.748	4.96
7/17/2004 12:00	27.597	37.019	31.377	42.978	26.1	4.767	21.762	4.99
7/17/2004 16:00	27.584	36.963	31.343	42.95	26.07	4.763	21.762	5.024
7/17/2004 20:00	27.597	36.937	31.333	42.98	26.073	4.769	21.767	5.045
7/18/2004 0:00	27.617	36.967	31.369	42.985	26.082	4.769	21.781	5.032
7/18/2004 4:00	27.617	36.984	31.367	42.987	26.093	4.728	21.783	5.011
7/18/2004 8:00	27.634	37.025	31.387	42.989	26.119	4.732	21.789	4.996
7/18/2004 12:00	27.644	37.036	31.363	42.992	26.143	4.718	21.791	5.013
7/18/2004 16:00	27.637	37.047	31.319	42.98	26.16	4.763	21.789	5.05
7/18/2004 20:00	27.639	37.057	31.279	42.964	26.312	4.761	21.787	5.067
7/19/2004 0:00	27.646	37.119	31.287	42.941	26.285	4.718	21.794	5.052
7/19/2004 4:00	27.632	37.145	31.253	42.953	26.293	4.716	21.788	5.026
7/19/2004 8:00	27.632	37.177	31.24	42.908	26.304	4.707	21.785	5.016
7/19/2004 12:00	27.632	37.211	31.232	42.934	26.33	4.757	21.786	5.052
7/19/2004 16:00	27.641	37.23	31.19	42.895	26.349	4.775	21.787	5.086
7/19/2004 20:00	27.641	37.251	31.172	42.915	26.383	4.775	21.792	5.108
7/20/2004 0:00	27.662	37.324	31.214	42.925	26.424	4.763	21.806	5.093
7/20/2004 4:00	27.666	37.371	31.216	42.899	26.454	4.751	21.808	5.069
7/20/2004 8:00	27.696	37.426	31.277	42.938	26.491	4.765	21.823	5.057
7/20/2004 12:00	27.724	37.46	31.295	42.95	26.525	4.775	21.831	5.103
7/20/2004 16:00	27.713	37.51	31.283	42.927	26.577	4.777	21.835	5.14
7/20/2004 20:00	27.733	37.492	31.265	42.957	26.596	4.778	21.839	5.159
7/21/2004 0:00	27.753	37.52	31.287	42.938	26.607	4.747	21.848	5.142
7/21/2004 4:00	27.751	37.51	31.287	42.962	26.593	4.759	21.851	5.125
7/21/2004 8:00	27.773	37.522	31.325	42.971	26.581	4.736	21.862	5.119
7/21/2004 12:00	27.773	37.522	31.335	42.975	26.573	4.74	21.864	5.117
7/21/2004 16:00	27.791	37.544	31.381	42.985	26.573	4.769	21.877	5.125
7/21/2004 20:00	27.783	37.51	31.367	42.994	26.508	4.765	21.877	5.14
7/22/2004 0:00	27.806	37.524	31.421	43.003	26.463	4.755	21.891	5.127
7/22/2004 4:00	27.759	37.518	31.427	43.008	26.446	4.765	21.864	5.108
7/22/2004 8:00	27.818	37.557	31.484	43.017	26.452	4.759	21.904	5.1
7/22/2004 12:00	27.84	37.588	31.518	43.033	26.467	4.757	21.914	5.102
7/22/2004 16:00	27.855	37.633	31.55	43.047	26.502	4.767	21.922	5.106
7/22/2004 20:00	27.85	37.644	31.548	43.024	26.517	4.773	21.926	5.115
7/23/2004 0:00	27.875	37.71	31.596	43.038	26.558	4.765	21.935	5.104
7/23/2004 4:00	27.883	37.746	31.612	43.077	26.592	4.753	21.943	5.087
7/23/2004 8:00	27.9	37.802	31.649	43.059	26.631	4.757	21.953	5.081
7/23/2004 12:00	27.893	37.858	31.681	43.072	26.68	4.753	21.959	5.092
7/23/2004 16:00	27.925	37.883	31.677	43.082	26.721	4.759	21.964	5.094

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
7/23/2004 20:00	27.938	37.898	31.671	43.119	26.756	4.773	21.968	5.102
7/24/2004 0:00	27.952	37.962	31.711	43.133	26.807	4.761	21.976	5.092
7/24/2004 4:00	27.957	37.983	31.709	43.142	26.837	4.755	21.978	5.079
7/24/2004 8:00	27.97	38.028	31.741	43.149	26.865	4.742	21.987	5.069
7/24/2004 12:00	27.952	38.073	31.789	43.163	26.803	4.742	21.951	5.049
7/24/2004 16:00	27.898	38.045	31.8	43.172	26.721	4.738	21.879	5.041
7/24/2004 20:00	27.856	38.015	31.81	43.176	26.652	4.73	21.883	5.052
7/25/2004 0:00	27.841	38.022	31.834	43.197	26.627	4.74	21.898	5.043
7/25/2004 4:00	27.818	38.002	31.826	43.197	26.616	4.73	21.904	5.028
7/25/2004 8:00	27.811	38.009	31.842	43.204	26.62	4.736	21.914	5.016
7/25/2004 12:00	27.8	38.002	31.836	43.204	26.626	4.74	21.918	5.039
7/25/2004 16:00	27.765	37.979	31.8	43.176	26.639	4.779	21.912	5.073
7/25/2004 20:00	27.752	37.96	31.774	43.172	26.721	4.746	21.914	5.092
7/26/2004 0:00	27.775	37.979	31.781	43.206	26.663	4.734	21.923	5.076
7/26/2004 4:00	27.763	37.977	31.762	43.197	26.671	4.73	21.92	5.054
7/26/2004 8:00	27.771	37.998	31.772	43.193	26.689	4.68	21.925	5.042
7/26/2004 12:00	27.771	38.007	31.756	43.183	26.708	4.705	21.925	5.061
7/26/2004 16:00	27.753	37.977	31.703	43.144	26.717	4.725	21.915	5.095
7/26/2004 20:00	27.749	37.96	31.661	43.13	26.732	4.693	21.912	5.114
7/27/2004 0:00	27.746	37.983	31.673	43.163	26.744	4.643	21.922	5.099
7/27/2004 4:00	27.75	37.99	31.651	43.123	26.755	4.645	21.918	5.076
7/27/2004 8:00	27.763	38.007	31.653	43.114	26.77	4.625	21.922	5.061
7/27/2004 12:00	27.766	38.035	31.641	43.137	26.794	4.643	21.923	5.093
7/27/2004 16:00	27.768	38.13	31.593	43.1	26.876	4.657	21.918	5.125
7/27/2004 20:00	27.773	38.145	31.569	43.102	26.906	4.662	21.917	5.149
7/28/2004 0:00	27.778	38.137	31.589	43.133	26.893	4.602	21.927	5.132
7/28/2004 4:00	27.773	38.111	31.56	43.126	26.884	4.58	21.923	5.108
7/28/2004 8:00	27.785	38.122	31.569	43.086	26.895	4.567	21.927	5.098
7/28/2004 12:00	27.798	38.199	31.571	43.112	26.951	4.598	21.931	5.125
7/28/2004 16:00	27.8	38.22	31.55	43.116	27.029	4.614	21.933	5.162
7/28/2004 20:00	27.798	38.18	31.575	43.084	26.96	4.606	21.943	5.159
7/29/2004 0:00	27.751	38.128	31.595	43.089	26.813	4.606	21.898	5.136
7/29/2004 4:00	27.741	38.073	31.593	43.084	26.701	4.583	21.892	5.119
7/29/2004 8:00	27.741	38.06	31.621	43.089	26.65	4.6	21.902	5.109
7/29/2004 12:00	27.738	38.049	31.633	43.123	26.635	4.587	21.91	5.109
7/29/2004 16:00	27.718	38.011	31.601	43.119	26.62	4.614	21.906	5.132
7/29/2004 20:00	27.704	37.983	31.573	43.082	26.626	4.608	21.906	5.149
7/30/2004 0:00	27.711	38.007	31.607	43.116	26.652	4.6	21.913	5.13
7/30/2004 4:00	27.699	37.987	31.579	43.114	26.656	4.592	21.906	5.105
7/30/2004 8:00	27.704	37.996	31.585	43.075	26.673	4.596	21.911	5.09
7/30/2004 12:00	27.711	38.007	31.595	43.102	26.689	4.585	21.915	5.101
7/30/2004 16:00	27.711	38.002	31.581	43.072	26.706	4.6	21.911	5.137
7/30/2004 20:00	27.718	38.009	31.581	43.098	26.734	4.585	21.918	5.169
7/31/2004 0:00	27.743	38.062	31.637	43.114	26.775	4.554	21.933	5.154
7/31/2004 4:00	27.756	38.079	31.647	43.126	26.796	4.538	21.939	5.131
7/31/2004 8:00	27.776	38.113	31.679	43.133	26.822	4.552	21.95	5.122
7/31/2004 12:00	27.8	38.145	31.709	43.142	26.865	4.565	21.962	5.163
7/31/2004 16:00	27.805	38.143	31.685	43.146	26.944	4.592	21.964	5.203
7/31/2004 20:00	27.818	38.145	31.679	43.119	26.977	4.581	21.97	5.225
8/1/2004 0:00	27.84	38.173	31.729	43.142	26.975	4.569	21.985	5.21
8/1/2004 4:00	27.843	38.135	31.735	43.174	26.833	4.579	21.991	5.189

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/1/2004 8:00	27.847	38.096	31.726	43.144	26.76	4.565	21.989	5.167
8/1/2004 12:00	27.862	38.103	31.746	43.19	26.772	4.563	22.001	5.197
8/1/2004 16:00	27.855	38.075	31.697	43.149	26.82	4.62	21.993	5.24
8/1/2004 20:00	27.864	38.088	31.708	43.158	26.891	4.625	22.004	5.268
8/2/2004 0:00	27.875	38.081	31.714	43.195	26.904	4.608	22.01	5.246
8/2/2004 4:00	27.872	38.043	31.697	43.156	26.861	4.589	22.011	5.225
8/2/2004 8:00	27.877	37.987	31.673	43.167	26.807	4.587	22.006	5.215
8/2/2004 12:00	27.9	37.998	31.72	43.153	26.794	4.608	22.026	5.27
8/2/2004 16:00	27.897	37.957	31.695	43.156	26.777	4.606	22.026	5.304
8/2/2004 20:00	27.9	37.93	31.673	43.183	26.744	4.61	22.028	5.323
8/3/2004 0:00	27.905	37.913	31.691	43.158	26.727	4.577	22.035	5.3
8/3/2004 4:00	27.912	37.872	31.687	43.183	26.689	4.603	22.037	5.274
8/3/2004 8:00	27.922	37.846	31.7	43.181	26.652	4.57	22.043	5.266
8/3/2004 12:00	27.929	37.825	31.699	43.156	26.633	4.585	22.047	5.319
8/3/2004 16:00	27.922	37.78	31.663	43.151	26.615	4.616	22.047	5.36
8/3/2004 20:00	27.91	37.693	31.595	43.158	26.57	4.624	22.037	5.381
8/4/2004 0:00	27.927	37.71	31.673	43.172	26.506	4.603	22.062	5.379
8/4/2004 4:00	27.937	37.695	31.655	43.146	26.484	4.638	22.061	5.341
8/4/2004 8:00	27.962	37.761	31.754	43.167	26.503	4.601	22.084	5.328
8/4/2004 12:00	28.001	37.808	31.814	43.211	26.538	4.62	22.099	5.322
8/4/2004 16:00	28.029	37.846	31.852	43.232	26.579	4.626	22.112	5.36
8/4/2004 20:00	28.041	37.874	31.879	43.253	26.654	4.62	22.124	5.375
8/5/2004 0:00	28.068	37.96	31.935	43.273	26.725	4.628	22.142	5.354
8/5/2004 4:00	28.098	38.015	31.979	43.29	26.781	4.603	22.153	5.335
8/5/2004 8:00	28.128	38.088	32.032	43.308	26.841	4.603	22.169	5.32
8/5/2004 12:00	28.151	38.16	32.052	43.331	26.923	4.616	22.177	5.354
8/5/2004 16:00	28.158	38.167	32.03	43.294	26.977	4.649	22.179	5.396
8/5/2004 20:00	28.158	38.167	32.009	43.303	27.02	4.659	22.181	5.424
8/6/2004 0:00	28.183	38.229	32.045	43.352	27.078	4.667	22.192	5.401
8/6/2004 4:00	28.196	38.265	32.055	43.361	27.134	4.639	22.198	5.373
8/6/2004 8:00	28.216	38.31	32.068	43.366	27.183	4.624	22.203	5.348
8/6/2004 12:00	28.225	38.346	32.074	43.347	27.239	4.636	22.209	5.378
8/6/2004 16:00	28.213	38.346	32.027	43.373	27.278	4.665	22.205	5.422
8/6/2004 20:00	28.218	38.32	31.991	43.373	27.261	4.671	22.204	5.442
8/7/2004 0:00	28.24	38.359	32.013	43.382	27.308	4.638	22.215	5.418
8/7/2004 4:00	28.24	38.346	31.985	43.37	27.325	4.644	22.211	5.382
8/7/2004 8:00	28.25	38.366	31.999	43.368	27.342	4.652	22.217	5.361
8/7/2004 12:00	28.253	38.368	31.985	43.37	27.357	4.65	22.217	5.389
8/7/2004 16:00	28.251	38.344	31.947	43.329	27.368	4.675	22.213	5.444
8/7/2004 20:00	28.255	38.342	31.929	43.347	27.39	4.685	22.219	5.474
8/8/2004 0:00	28.25	38.393	31.963	43.364	27.42	4.671	22.231	5.446
8/8/2004 4:00	28.275	38.41	31.969	43.331	27.4	4.65	22.234	5.421
8/8/2004 8:00	28.31	38.459	32.003	43.368	27.42	4.663	22.246	5.404
8/8/2004 12:00	28.31	38.483	32.005	43.375	27.482	4.655	22.246	5.412
8/8/2004 16:00	28.335	38.527	32.009	43.361	27.564	4.669	22.252	5.466
8/8/2004 20:00	28.327	38.579	32.033	43.364	27.534	4.671	22.267	5.47
8/9/2004 0:00	28.342	38.615	32.061	43.37	27.538	4.652	22.273	5.442
8/9/2004 4:00	28.369	38.636	32.072	43.405	27.555	4.644	22.279	5.419
8/9/2004 8:00	28.402	38.681	32.11	43.417	27.586	4.671	22.292	5.406
8/9/2004 12:00	28.417	38.816	32.13	43.435	27.678	4.702	22.302	5.462
8/9/2004 16:00	28.417	38.805	32.108	43.447	27.687	4.718	22.292	5.509

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/9/2004 20:00	28.427	38.792	32.11	43.454	27.7	4.71	22.308	5.538
8/10/2004 0:00	28.439	38.805	32.13	43.44	27.71	4.687	22.316	5.509
8/10/2004 4:00	28.444	38.809	32.142	43.447	27.719	4.673	22.321	5.485
8/10/2004 8:00	28.476	38.863	32.19	43.486	27.751	4.685	22.335	5.472
8/10/2004 12:00	28.476	38.856	32.174	43.458	27.766	4.683	22.333	5.485
8/10/2004 16:00	28.466	38.818	32.138	43.488	27.764	4.72	22.331	5.536
8/10/2004 20:00	28.476	38.835	32.162	43.498	27.792	4.702	22.345	5.545
8/11/2004 0:00	28.486	38.873	32.176	43.472	27.805	4.688	22.349	5.509
8/11/2004 4:00	28.481	38.867	32.17	43.498	27.807	4.636	22.351	5.475
8/11/2004 8:00	28.518	38.92	32.215	43.511	27.84	4.669	22.362	5.462
8/11/2004 12:00	28.533	38.933	32.214	43.484	27.898	4.687	22.364	5.477
8/11/2004 16:00	28.526	38.927	32.201	43.514	27.923	4.708	22.366	5.52
8/11/2004 20:00	28.546	38.942	32.208	43.521	27.949	4.731	22.372	5.552
8/12/2004 0:00	28.546	38.968	32.227	43.528	27.973	4.708	22.38	5.52
8/12/2004 4:00	28.551	38.961	32.22	43.498	27.979	4.681	22.38	5.484
8/12/2004 8:00	28.573	38.995	32.246	43.535	27.975	4.685	22.387	5.471
8/12/2004 12:00	28.58	38.995	32.249	43.537	27.96	4.7	22.391	5.482
8/12/2004 16:00	28.583	38.989	32.255	43.546	27.967	4.755	22.397	5.533
8/12/2004 20:00	28.578	39.006	32.271	43.558	27.977	4.735	22.405	5.565
8/13/2004 0:00	28.615	39.046	32.299	43.541	28.007	4.739	22.416	5.539
8/13/2004 4:00	28.618	39.063	32.315	43.578	28.016	4.704	22.422	5.507
8/13/2004 8:00	28.635	39.089	32.337	43.588	28.04	4.718	22.428	5.488
8/13/2004 12:00	28.655	39.136	32.351	43.597	28.068	4.738	22.436	5.522
8/13/2004 16:00	28.675	39.262	32.343	43.608	28.165	4.734	22.439	5.572
8/13/2004 20:00	28.662	39.313	32.353	43.592	28.203	4.741	22.447	5.597
8/14/2004 0:00	28.68	39.288	32.369	43.636	28.18	4.769	22.455	5.569
8/14/2004 4:00	28.695	39.281	32.381	43.618	28.182	4.741	22.461	5.544
8/14/2004 8:00	28.705	39.296	32.404	43.662	28.19	4.747	22.468	5.525
8/14/2004 12:00	28.735	39.392	32.42	43.673	28.266	4.734	22.476	5.574
8/14/2004 16:00	28.725	39.339	32.406	43.68	28.246	4.798	22.478	5.621
8/14/2004 20:00	28.727	39.32	32.41	43.692	28.244	4.778	22.484	5.65
8/15/2004 0:00	28.742	39.347	32.432	43.703	28.259	4.753	22.493	5.619
8/15/2004 4:00	28.752	39.356	32.44	43.703	28.268	4.761	22.5	5.587
8/15/2004 8:00	28.764	39.367	32.452	43.678	28.283	4.739	22.505	5.564
8/15/2004 12:00	28.777	39.388	32.462	43.719	28.352	4.743	22.511	5.606
8/15/2004 16:00	28.769	39.364	32.438	43.717	28.365	4.776	22.511	5.64
8/15/2004 20:00	28.759	39.324	32.415	43.71	28.354	4.786	22.509	5.672
8/16/2004 0:00	28.767	39.337	32.422	43.685	28.313	4.734	22.517	5.642
8/16/2004 4:00	28.759	39.305	32.4	43.703	28.296	4.724	22.513	5.604
8/16/2004 8:00	28.734	39.309	32.404	43.671	28.298	4.73	22.521	5.587
8/16/2004 12:00	28.779	39.322	32.398	43.701	28.322	4.747	22.521	5.636
8/16/2004 16:00	28.769	39.292	32.371	43.687	28.335	4.767	22.517	5.687
8/16/2004 20:00	28.772	39.281	32.363	43.68	28.317	4.759	22.523	5.711
8/17/2004 0:00	28.762	39.309	32.373	43.685	28.33	4.752	22.528	5.672
8/17/2004 4:00	28.779	39.296	32.357	43.678	28.328	4.72	22.528	5.632
8/17/2004 8:00	28.784	39.311	32.365	43.671	28.337	4.724	22.532	5.602
8/17/2004 12:00	28.802	39.337	32.373	43.68	28.363	4.755	22.538	5.656
8/17/2004 16:00	28.809	39.33	32.361	43.685	28.384	4.757	22.542	5.72
8/17/2004 20:00	28.799	39.317	32.343	43.696	28.41	4.771	22.546	5.734
8/18/2004 0:00	28.814	39.352	32.351	43.696	28.399	4.773	22.552	5.696
8/18/2004 4:00	28.809	39.334	32.327	43.685	28.395	4.719	22.548	5.649

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/18/2004 8:00	28.779	39.3	32.297	43.662	28.384	4.734	22.538	5.611
8/18/2004 12:00	28.811	39.322	32.271	43.664	28.414	4.736	22.55	5.677
8/18/2004 16:00	28.812	39.313	32.227	43.662	28.427	4.762	22.552	5.745
8/18/2004 20:00	28.826	39.362	32.255	43.673	28.442	4.785	22.565	5.765
8/19/2004 0:00	28.868	39.473	32.329	43.701	28.49	4.764	22.588	5.741
8/19/2004 4:00	28.891	39.524	32.369	43.722	28.52	4.752	22.6	5.709
8/19/2004 8:00	28.906	39.557	32.394	43.71	28.546	4.758	22.608	5.686
8/19/2004 12:00	28.918	39.569	32.406	43.747	28.563	4.769	22.615	5.712
8/19/2004 16:00	28.95	39.55	32.39	43.715	28.567	4.785	22.617	5.741
8/19/2004 20:00	28.911	39.52	32.371	43.733	28.597	4.797	22.615	5.737
8/20/2004 0:00	28.916	39.537	32.377	43.736	28.625	4.754	22.621	5.709
8/20/2004 4:00	28.92	39.535	32.371	43.731	28.638	4.76	22.621	5.68
8/20/2004 8:00	28.923	39.542	32.377	43.731	28.642	4.744	22.627	5.654
8/20/2004 12:00	28.945	39.642	32.402	43.712	28.713	4.76	22.637	5.688
8/20/2004 16:00	28.958	39.736	32.394	43.717	28.785	4.773	22.639	5.755
8/20/2004 20:00	28.958	39.742	32.408	43.752	28.785	4.797	22.644	5.789
8/21/2004 0:00	28.988	39.738	32.438	43.768	28.778	4.766	22.656	5.754
8/21/2004 4:00	28.992	39.697	32.448	43.752	28.761	4.764	22.66	5.716
8/21/2004 8:00	29.002	39.687	32.482	43.786	28.737	4.76	22.67	5.693
8/21/2004 12:00	28.992	39.644	32.484	43.796	28.709	4.758	22.675	5.719
8/21/2004 16:00	28.992	39.552	32.44	43.756	28.688	4.779	22.666	5.782
8/21/2004 20:00	28.995	39.499	32.434	43.749	28.67	4.769	22.67	5.806
8/22/2004 0:00	29.007	39.475	32.444	43.756	28.653	4.773	22.675	5.763
8/22/2004 4:00	28.988	39.396	32.424	43.745	28.621	4.752	22.671	5.719
8/22/2004 8:00	28.995	39.356	32.432	43.768	28.604	4.775	22.673	5.689
8/22/2004 12:00	28.992	39.302	32.428	43.74	28.582	4.762	22.677	5.74
8/22/2004 16:00	28.985	39.238	32.412	43.759	28.559	4.797	22.675	5.802
8/22/2004 20:00	28.99	39.198	32.414	43.729	28.543	4.817	22.681	5.823
8/23/2004 0:00	29.002	39.189	32.436	43.761	28.535	4.791	22.689	5.789
8/23/2004 4:00	29.01	39.142	32.444	43.761	28.509	4.785	22.692	5.757
8/23/2004 8:00	29.005	39.097	32.444	43.729	28.49	4.787	22.693	5.721
8/23/2004 12:00	29.005	39.068	32.456	43.763	28.468	4.776	22.699	5.728
8/23/2004 16:00	28.997	39.008	32.444	43.729	28.425	4.789	22.697	5.724
8/23/2004 20:00	28.983	38.937	32.432	43.726	28.388	4.784	22.7	5.711
8/24/2004 0:00	29.01	38.91	32.452	43.759	28.38	4.756	22.704	5.69
8/24/2004 4:00	29	38.854	32.46	43.756	28.35	4.762	22.704	5.673
8/24/2004 8:00	28.943	38.835	32.482	43.772	27.986	4.712	22.625	5.551
8/24/2004 12:00	28.829	38.688	32.454	43.77	27.792	4.702	22.451	5.545
8/24/2004 16:00	28.739	38.579	32.44	43.766	27.701	4.737	22.437	5.63
8/24/2004 20:00	28.707	38.508	32.462	43.749	27.637	4.745	22.456	5.658
8/25/2004 0:00	28.655	38.451	32.438	43.742	27.57	4.729	22.46	5.594
8/25/2004 4:00	28.575	38.359	32.458	43.747	27.422	4.714	22.321	5.579
8/25/2004 8:00	28.516	38.284	32.466	43.763	27.361	4.706	22.346	5.56
8/25/2004 12:00	28.488	38.261	32.468	43.761	27.329	4.702	22.368	5.556
8/25/2004 16:00	28.441	38.216	32.456	43.756	27.316	4.751	22.375	5.592
8/25/2004 20:00	28.449	38.211	32.466	43.752	27.327	4.733	22.397	5.628
8/26/2004 0:00	28.451	38.235	32.482	43.733	27.353	4.73	22.412	5.586
8/26/2004 4:00	28.439	38.224	32.48	43.759	27.366	4.699	22.417	5.548
8/26/2004 8:00	28.449	38.244	32.494	43.763	27.394	4.708	22.429	5.518
8/26/2004 12:00	28.446	38.246	32.49	43.761	27.413	4.735	22.435	5.544
8/26/2004 16:00	28.431	38.214	32.46	43.754	27.417	4.73	22.431	5.593

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/26/2004 20:00	28.429	38.228	32.458	43.749	27.45	4.732	22.439	5.625
8/27/2004 0:00	28.458	38.305	32.504	43.738	27.488	4.7	22.458	5.605
8/27/2004 4:00	28.481	38.361	32.534	43.786	27.525	4.718	22.472	5.576
8/27/2004 8:00	28.499	38.414	32.567	43.803	27.568	4.712	22.487	5.552
8/27/2004 12:00	28.52	38.451	32.585	43.816	27.6	4.724	22.499	5.557
8/27/2004 16:00	28.513	38.444	32.573	43.793	27.613	4.735	22.501	5.591
8/27/2004 20:00	28.523	38.468	32.589	43.826	27.645	4.747	22.51	5.614
8/28/2004 0:00	28.555	38.551	32.635	43.844	27.691	4.743	22.53	5.597
8/28/2004 4:00	28.565	38.568	32.635	43.853	27.708	4.753	22.536	5.563
8/28/2004 8:00	28.58	38.61	32.659	43.839	27.736	4.737	22.547	5.542
8/28/2004 12:00	28.6	38.638	32.673	43.849	27.77	4.765	22.557	5.561
8/28/2004 16:00	28.597	38.623	32.659	43.886	27.796	4.753	22.559	5.608
8/28/2004 20:00	28.6	38.628	32.663	43.886	27.805	4.757	22.567	5.636
8/29/2004 0:00	28.625	38.677	32.685	43.897	27.835	4.74	22.576	5.602
8/29/2004 4:00	28.612	38.664	32.671	43.872	27.837	4.726	22.578	5.561
8/29/2004 8:00	28.627	38.688	32.689	43.904	27.856	4.716	22.586	5.54
8/29/2004 12:00	28.642	38.715	32.689	43.911	27.88	4.722	22.592	5.566
8/29/2004 16:00	28.629	38.683	32.655	43.9	27.884	4.742	22.588	5.625
8/29/2004 20:00	28.627	38.672	32.641	43.9	27.906	4.748	22.59	5.662
8/30/2004 0:00	28.647	38.722	32.661	43.906	27.917	4.736	22.6	5.632
8/30/2004 4:00	28.657	38.749	32.679	43.918	27.934	4.718	22.607	5.604
8/30/2004 8:00	28.674	38.786	32.697	43.92	27.962	4.746	22.615	5.583
8/30/2004 12:00	28.699	38.852	32.71	43.902	28.013	4.732	22.623	5.647
8/30/2004 16:00	28.679	38.85	32.709	43.911	28.026	4.763	22.622	5.713
8/30/2004 20:00	28.712	38.863	32.717	43.941	28.05	4.749	22.638	5.743
8/31/2004 0:00	28.739	38.92	32.749	43.955	28.078	4.759	22.65	5.704
8/31/2004 4:00	28.739	38.92	32.745	43.96	28.084	4.773	22.654	5.66
8/31/2004 8:00	28.757	38.952	32.762	43.948	28.104	4.742	22.663	5.632
8/31/2004 12:00	28.772	38.967	32.768	43.948	28.125	4.75	22.669	5.675
8/31/2004 16:00	28.762	38.954	32.741	43.96	28.136	4.783	22.667	5.72
8/31/2004 20:00	28.768	38.961	33.132	43.932	28.156	4.791	22.675	5.745
9/1/2004 0:00	28.783	38.995	33.15	43.967	28.175	4.76	22.682	5.702
9/1/2004 4:00	28.798	39.023	33.162	43.969	28.186	4.744	22.689	5.667
9/1/2004 8:00	28.801	39.051	33.176	43.948	28.201	4.742	22.694	5.639
9/1/2004 12:00	28.816	39.063	33.174	43.98	28.218	4.762	22.698	5.682
9/1/2004 16:00	28.806	39.048	33.146	43.973	28.259	4.785	22.698	5.752
9/1/2004 20:00	28.806	39.04	33.136	43.973	28.278	4.777	22.702	5.769
9/2/2004 0:00	28.818	39.057	33.144	43.939	28.25	4.754	22.706	5.726
9/2/2004 4:00	28.816	39.048	33.138	43.941	28.248	4.756	22.709	5.688
9/2/2004 8:00	28.818	39.051	33.138	43.937	28.248	4.743	22.71	5.654
9/2/2004 12:00	28.821	39.044	33.126	43.962	28.256	4.752	22.709	5.701
9/2/2004 16:00	28.811	39.012	33.096	43.948	28.259	4.779	22.706	5.773
9/2/2004 20:00	28.811	39.01	33.088	43.911	28.258	4.795	22.71	5.797
9/3/2004 0:00	28.826	39.051	33.108	43.948	28.291	4.785	22.72	5.754
9/3/2004 4:00	28.836	39.063	33.114	43.927	28.302	4.774	22.723	5.714
9/3/2004 8:00	28.843	39.085	33.122	43.95	28.311	4.758	22.729	5.684
9/3/2004 12:00	28.858	39.115	33.128	43.925	28.347	4.785	22.733	5.739
9/3/2004 16:00	28.858	39.106	33.118	43.925	28.353	4.791	22.737	5.812
9/3/2004 20:00	28.858	39.117	33.126	43.923	28.362	4.805	22.742	5.831
9/4/2004 0:00	28.885	39.162	33.152	43.964	28.386	4.779	22.75	5.788
9/4/2004 4:00	28.895	39.183	33.168	43.971	28.399	4.766	22.758	5.748

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/4/2004 8:00	28.903	39.213	33.19	43.955	28.414	4.772	22.766	5.716
9/4/2004 12:00	28.923	39.255	33.192	43.987	28.478	4.766	22.77	5.757
9/4/2004 16:00	28.915	39.217	33.166	43.978	28.478	4.779	22.768	5.827
9/4/2004 20:00	28.912	39.206	33.158	43.943	28.497	4.792	22.77	5.848
9/5/2004 0:00	28.92	39.232	33.174	43.983	28.476	4.786	22.777	5.806
9/5/2004 4:00	28.93	39.238	33.17	43.98	28.478	4.776	22.78	5.763
9/5/2004 8:00	28.93	39.234	33.164	43.948	28.482	4.792	22.78	5.73
9/5/2004 12:00	28.92	39.206	33.14	43.939	28.478	4.782	22.774	5.757
9/5/2004 16:00	28.905	39.159	33.118	43.948	28.468	4.871	22.772	5.825
9/5/2004 20:00	28.875	39.155	33.112	43.941	28.418	4.84	22.766	5.772
9/6/2004 0:00	28.91	39.23	33.176	43.96	28.41	4.817	22.785	5.757
9/6/2004 4:00	28.93	39.279	33.214	43.978	28.42	4.844	22.795	5.734
9/6/2004 8:00	28.954	39.353	33.269	44.008	28.453	4.823	22.81	5.723
9/6/2004 12:00	28.982	39.39	33.301	44.027	28.483	4.838	22.822	5.779
9/6/2004 16:00	28.982	39.388	33.305	44.036	28.502	4.86	22.828	5.849
9/6/2004 20:00	29.002	39.411	33.329	44.054	28.528	4.838	22.839	5.881
9/7/2004 0:00	29.017	39.454	33.359	44.071	28.552	4.846	22.849	5.832
9/7/2004 4:00	29.024	39.465	33.371	44.084	28.567	4.815	22.855	5.787
9/7/2004 8:00	29.044	39.503	33.407	44.103	28.592	4.835	22.866	5.762
9/7/2004 12:00	29.054	39.533	33.416	44.114	28.625	4.848	22.872	5.809
9/7/2004 16:00	29.041	39.484	33.386	44.117	28.618	4.872	22.868	5.873
9/7/2004 20:00	29.049	39.492	33.394	44.096	28.633	4.854	22.874	5.902
9/8/2004 0:00	29.052	39.511	33.412	44.103	28.644	4.843	22.88	5.854
9/8/2004 4:00	29.062	39.527	33.42	44.135	28.657	4.794	22.886	5.809
9/8/2004 8:00	29.084	39.55	33.444	44.151	28.676	4.804	22.893	5.773
9/8/2004 12:00	29.079	39.541	33.44	44.154	28.683	4.8	22.895	5.801
9/8/2004 16:00	29.066	39.499	33.401	44.117	28.676	4.821	22.888	5.871
9/8/2004 20:00	29.071	39.501	33.407	44.119	28.687	4.831	22.893	5.909
9/9/2004 0:00	29.084	39.537	33.432	44.158	28.704	4.806	22.903	5.862
9/9/2004 4:00	29.084	39.533	33.436	44.128	28.709	4.794	22.905	5.813
9/9/2004 8:00	29.091	39.556	33.452	44.158	28.722	4.808	22.909	5.782
9/9/2004 12:00	29.109	39.588	33.458	44.133	28.75	4.794	22.913	5.824
9/9/2004 16:00	29.091	39.546	33.426	44.154	28.739	4.839	22.909	5.901
9/9/2004 20:00	29.101	39.548	33.434	44.135	28.754	4.837	22.915	5.935
9/10/2004 0:00	29.111	39.58	33.46	44.172	28.769	4.82	22.922	5.892
9/10/2004 4:00	29.119	39.595	33.468	44.174	28.778	4.814	22.926	5.852
9/10/2004 8:00	29.139	39.639	33.494	44.154	28.797	4.824	22.934	5.824
9/10/2004 12:00	29.139	39.657	33.5	44.158	28.823	4.824	22.94	5.884
9/10/2004 16:00	29.134	39.625	33.478	44.158	28.816	4.833	22.938	5.952
9/10/2004 20:00	29.143	39.631	33.486	44.163	28.825	4.824	22.944	5.974
9/11/2004 0:00	29.161	39.671	33.512	44.172	28.842	4.822	22.951	5.935
9/11/2004 4:00	29.158	39.671	33.514	44.202	28.853	4.794	22.953	5.893
9/11/2004 8:00	29.176	39.703	33.536	44.213	28.868	4.814	22.961	5.861
9/11/2004 12:00	29.186	39.719	33.54	44.214	28.887	4.822	22.965	5.904
9/11/2004 16:00	29.178	39.697	33.518	44.179	28.913	4.847	22.965	5.978
9/11/2004 20:00	29.191	39.703	33.53	44.218	28.922	4.857	22.971	6.006
9/12/2004 0:00	29.196	39.733	33.547	44.198	28.952	4.841	22.976	5.955
9/12/2004 4:00	29.201	39.733	33.551	44.228	28.958	4.822	22.981	5.91
9/12/2004 8:00	29.208	39.755	33.563	44.23	28.969	4.834	22.982	5.878
9/12/2004 12:00	29.218	39.776	33.555	44.232	28.978	4.845	22.984	5.934
9/12/2004 16:00	29.201	39.733	33.522	44.218	28.963	4.851	22.979	6.002

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/12/2004 20:00	29.206	39.738	33.53	44.198	28.974	4.882	22.986	6.025
9/13/2004 0:00	29.218	39.763	33.546	44.235	28.989	4.832	22.992	5.989
9/13/2004 4:00	29.213	39.755	33.54	44.23	28.982	4.838	22.992	5.951
9/13/2004 8:00	29.215	39.755	33.54	44.223	28.986	4.853	22.994	5.923
9/13/2004 12:00	29.223	39.742	33.526	44.221	28.948	4.845	22.994	5.983
9/13/2004 16:00	29.208	39.712	33.508	44.207	28.93	4.88	22.992	6.04
9/13/2004 20:00	29.215	39.716	33.506	44.205	28.961	4.849	22.994	6.055
9/14/2004 0:00	29.232	39.761	33.532	44.214	29.01	4.853	23.006	6.027
9/14/2004 4:00	29.235	39.774	33.542	44.186	29.017	4.823	23.008	5.998
9/14/2004 8:00	29.245	39.808	33.566	44.225	29.029	4.846	23.015	5.968
9/14/2004 12:00	29.252	39.8	33.549	44.218	29.053	4.861	23.015	6.017
9/14/2004 16:00	29.238	39.759	33.524	44.177	29.036	4.861	23.012	6.07
9/14/2004 20:00	29.248	39.759	33.528	44.209	29.042	4.861	23.017	6.092
9/15/2004 0:00	29.26	39.819	33.55	44.221	29.047	4.856	23.025	6.055
9/15/2004 4:00	29.253	39.774	33.536	44.214	28.999	4.84	23.023	6.017
9/15/2004 8:00	29.282	39.868	33.605	44.209	29.017	4.848	23.039	5.996
9/15/2004 12:00	29.287	39.909	33.641	44.251	29.032	4.877	23.048	5.973
9/15/2004 16:00	29.31	39.915	33.641	44.251	29.085	4.9	23.054	6.043
9/15/2004 20:00	29.337	40.028	33.679	44.248	29.178	4.91	23.066	6.092
9/16/2004 0:00	29.362	40.086	33.725	44.297	29.2	4.898	23.08	6.054
9/16/2004 4:00	29.37	40.096	33.754	44.32	29.202	4.893	23.089	6.005
9/16/2004 8:00	29.382	40.099	33.771	44.336	29.204	4.883	23.097	5.964
9/16/2004 12:00	29.397	40.086	33.772	44.32	29.208	4.881	23.099	5.984
9/16/2004 16:00	29.374	40.03	33.736	44.308	29.195	4.912	23.095	6.054
9/16/2004 20:00	29.379	40.015	33.746	44.352	29.174	4.922	23.102	6.092
9/17/2004 0:00	29.392	40.03	33.768	44.362	29.15	4.912	23.108	6.043
9/17/2004 4:00	29.384	40.015	33.768	44.366	29.139	4.905	23.112	5.999
9/17/2004 8:00	29.399	40.041	33.792	44.371	29.144	4.908	23.118	5.963
9/17/2004 12:00	29.404	40.045	33.784	44.369	29.163	4.924	23.12	5.995
9/17/2004 16:00	29.392	39.998	33.752	44.362	29.152	4.934	23.114	6.054
9/17/2004 20:00	29.409	40.037	33.794	44.352	29.165	4.94	23.128	6.099
9/18/2004 0:00	29.402	40.049	33.798	44.385	29.176	4.926	23.132	6.065
9/18/2004 4:00	29.417	40.064	33.81	44.392	29.187	4.932	23.135	6.035
9/18/2004 8:00	29.424	40.107	33.828	44.401	29.197	4.921	23.141	6.016
9/18/2004 12:00	29.441	40.122	33.848	44.375	29.219	4.926	23.149	6.048
9/18/2004 16:00	29.436	40.086	33.814	44.403	29.215	4.936	23.145	6.116
9/18/2004 20:00	29.444	40.139	33.848	44.414	29.26	4.924	23.154	6.144
9/19/2004 0:00	29.464	40.184	33.878	44.394	29.271	4.944	23.164	6.103
9/19/2004 4:00	29.476	40.205	33.898	44.406	29.281	4.94	23.17	6.057
9/19/2004 8:00	29.484	40.237	33.925	44.419	29.29	4.922	23.18	6.029
9/19/2004 12:00	29.496	40.254	33.935	44.456	29.305	4.928	23.184	6.093
9/19/2004 16:00	29.486	40.22	33.9	44.433	29.355	4.952	23.182	6.155
9/19/2004 20:00	29.491	40.214	33.904	44.459	29.361	4.934	23.185	6.174
9/20/2004 0:00	29.493	40.229	33.919	44.463	29.376	4.934	23.191	6.14
9/20/2004 4:00	29.508	40.235	33.931	44.47	29.386	4.944	23.197	6.11
9/20/2004 8:00	29.516	40.254	33.955	44.445	29.395	4.924	23.203	6.089
9/20/2004 12:00	29.516	40.246	33.943	44.47	29.391	4.948	23.205	6.151
9/20/2004 16:00	29.501	40.22	33.91	44.466	29.384	4.965	23.199	6.197
9/20/2004 20:00	29.511	40.22	33.921	44.435	29.337	4.964	23.207	6.217
9/21/2004 0:00	29.523	40.257	33.957	44.482	29.342	4.942	23.214	6.18
9/21/2004 4:00	29.533	40.278	33.975	44.482	29.355	4.948	23.22	6.149

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/21/2004 8:00	29.541	40.303	34.001	44.489	29.37	4.954	23.226	6.123
9/21/2004 12:00	29.548	40.314	34.001	44.498	29.383	4.954	23.23	6.181
9/21/2004 16:00	29.553	40.306	34.003	44.473	29.387	4.973	23.234	6.236
9/21/2004 20:00	29.548	40.327	34.025	44.512	29.428	4.96	23.242	6.251
9/22/2004 0:00	29.58	40.374	34.057	44.523	29.471	4.977	23.25	6.21
9/22/2004 4:00	29.588	40.385	34.065	44.498	29.484	4.939	23.255	6.168
9/22/2004 8:00	29.603	40.415	34.093	44.542	29.512	4.968	23.263	6.136
9/22/2004 12:00	29.608	40.408	34.089	44.512	29.512	4.976	23.265	6.183
9/22/2004 16:00	29.585	40.359	34.043	44.516	29.501	5.008	23.261	6.242
9/22/2004 20:00	29.605	40.436	34.061	44.516	29.57	4.987	23.267	6.264
9/23/2004 0:00	29.603	40.425	34.063	44.546	29.563	4.991	23.269	6.215
9/23/2004 4:00	29.603	40.408	34.061	44.546	29.548	4.987	23.269	6.173
9/23/2004 8:00	29.608	40.419	34.079	44.551	29.548	4.966	23.274	6.143
9/23/2004 12:00	29.638	40.472	34.124	44.567	29.566	4.96	23.284	6.134
9/23/2004 16:00	29.63	40.451	34.106	44.567	29.559	4.974	23.284	6.207
9/23/2004 20:00	29.645	40.474	34.14	44.585	29.572	4.984	23.294	6.262
9/24/2004 0:00	29.652	40.502	34.164	44.595	29.591	4.974	23.302	6.217
9/24/2004 4:00	29.658	40.5	34.166	44.597	29.594	4.962	23.306	6.181
9/24/2004 8:00	29.677	40.545	34.21	44.609	29.613	4.941	23.313	6.162
9/24/2004 12:00	29.685	40.541	34.206	44.62	29.619	4.955	23.317	6.203
9/24/2004 16:00	29.675	40.494	34.178	44.618	29.606	4.994	23.315	6.275
9/24/2004 20:00	29.682	40.504	34.2	44.627	29.617	5.005	23.323	6.305
9/25/2004 0:00	29.7	40.551	34.24	44.643	29.638	4.98	23.333	6.267
9/25/2004 4:00	29.705	40.56	34.246	44.648	29.643	4.967	23.337	6.222
9/25/2004 8:00	29.72	40.598	34.28	44.634	29.664	4.99	23.346	6.192
9/25/2004 12:00	29.737	40.617	34.288	44.673	29.699	4.996	23.352	6.224
9/25/2004 16:00	29.72	40.583	34.264	44.674	29.684	5.005	23.352	6.299
9/25/2004 20:00	29.742	40.592	34.292	44.685	29.653	5.04	23.36	6.326
9/26/2004 0:00	29.742	40.643	34.299	44.696	29.63	5	23.364	6.273
9/26/2004 4:00	29.74	40.647	34.3	44.694	29.623	4.994	23.365	6.22
9/26/2004 8:00	29.747	40.664	34.319	44.697	29.634	4.961	23.369	6.184
9/26/2004 12:00	29.757	40.675	34.311	44.699	29.693	4.965	23.373	6.205
9/26/2004 16:00	29.74	40.63	34.278	44.692	29.686	5	23.367	6.284
9/26/2004 20:00	29.747	40.639	34.287	44.694	29.705	5.007	23.374	6.324
9/27/2004 0:00	29.754	40.652	34.307	44.699	29.714	4.983	23.379	6.28
9/27/2004 4:00	29.752	40.641	34.31	44.696	29.709	4.969	23.381	6.231
9/27/2004 8:00	29.757	40.645	34.333	44.706	29.681	4.955	23.385	6.199
9/27/2004 12:00	29.772	40.639	34.337	44.708	29.673	4.975	23.389	6.237
9/27/2004 16:00	29.754	40.59	34.304	44.664	29.651	4.99	23.385	6.312
9/27/2004 20:00	29.762	40.602	34.334	44.706	29.656	4.986	23.393	6.344
9/28/2004 0:00	29.784	40.662	34.377	44.722	29.68	4.981	23.402	6.314
9/28/2004 4:00	29.779	40.686	34.391	44.733	29.686	4.967	23.408	6.276
9/28/2004 8:00	29.804	40.733	34.431	44.724	29.716	4.988	23.418	6.255
9/28/2004 12:00	29.826	40.767	34.447	44.763	29.744	5	23.425	6.278
9/28/2004 16:00	29.804	40.726	34.411	44.763	29.731	5.039	23.424	6.336
9/28/2004 20:00	29.819	40.737	34.431	44.77	29.742	5.016	23.429	6.365
9/29/2004 0:00	29.826	40.754	34.439	44.747	29.75	4.997	23.433	6.304
9/29/2004 4:00	29.811	40.735	34.427	44.743	29.751	4.995	23.433	6.249
9/29/2004 8:00	29.819	40.752	34.445	44.773	29.75	4.975	23.437	6.208
9/29/2004 12:00	29.829	40.752	34.437	44.775	29.759	4.981	23.439	6.215
9/29/2004 16:00	29.794	40.694	34.385	44.756	29.74	5.02	23.424	6.264

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/29/2004 20:00	29.807	40.694	34.399	44.763	29.744	5.01	23.433	6.306
9/30/2004 0:00	29.816	40.716	34.413	44.733	29.755	4.999	23.437	6.272
9/30/2004 4:00	29.814	40.716	34.413	44.759	29.753	4.967	23.439	6.236
9/30/2004 8:00	29.816	40.733	34.425	44.763	29.757	4.985	23.443	6.21
9/30/2004 12:00	29.824	40.741	34.423	44.756	29.768	4.981	23.445	6.251
9/30/2004 16:00	29.809	40.701	34.385	44.74	29.761	5.024	23.439	6.323
9/30/2004 20:00	29.812	40.703	34.401	44.752	29.766	5.012	23.441	6.347
10/1/2004 0:00	29.822	40.722	34.411	44.71	29.774	5.01	23.445	6.317
10/1/2004 4:00	29.814	40.705	34.395	44.729	29.77	5.013	23.445	6.281
10/1/2004 8:00	29.817	40.733	34.419	44.731	29.774	5.007	23.449	6.26
10/1/2004 12:00	29.817	40.782	34.445	44.713	29.843	5.022	23.453	6.294
10/1/2004 16:00	29.866	40.863	34.506	44.75	29.841	5.022	23.47	6.341
10/1/2004 20:00	29.896	40.978	34.582	44.789	29.871	5.02	23.489	6.332
10/2/2004 0:00	29.923	41.051	34.63	44.819	29.899	5.013	23.503	6.298
10/2/2004 4:00	29.933	41.081	34.648	44.867	29.919	5.051	23.511	6.262
10/2/2004 8:00	29.941	41.102	34.667	44.886	29.923	5.026	23.518	6.234
10/2/2004 12:00	29.956	41.109	34.671	44.87	29.935	5.02	23.524	6.23
10/2/2004 16:00	29.938	41.053	34.628	44.865	29.925	5.025	23.518	6.249
10/2/2004 20:00	29.928	41.017	34.616	44.865	29.912	5.018	23.518	6.271
10/3/2004 0:00	29.928	41.019	34.622	44.893	29.916	5.027	23.522	6.247
10/3/2004 4:00	29.921	40.997	34.606	44.856	29.906	5.009	23.518	6.22
10/3/2004 8:00	29.906	40.985	34.604	44.849	29.901	4.996	23.52	6.201
10/3/2004 12:00	29.918	40.976	34.6	44.842	29.904	5.003	23.52	6.248
10/3/2004 16:00	29.911	40.94	34.572	44.828	29.899	5.029	23.515	6.318
10/3/2004 20:00	29.926	40.985	34.614	44.872	29.957	5.044	23.524	6.367
10/4/2004 0:00	29.946	41.057	34.667	44.895	29.994	5.007	23.536	6.35
10/4/2004 4:00	29.965	41.109	34.691	44.909	30.015	5.007	23.546	6.324
10/4/2004 8:00	29.98	41.179	34.741	44.907	30.041	5.013	23.557	6.309
10/4/2004 12:00	30	41.217	34.755	44.918	30.067	5.044	23.567	6.316
10/4/2004 16:00	29.993	41.192	34.731	44.951	30.067	5.045	23.567	6.358
10/4/2004 20:00	29.995	41.179	34.741	44.934	30.067	5.037	23.573	6.382
10/5/2004 0:00	30.003	41.16	34.745	44.934	30.056	5.034	23.575	6.335
10/5/2004 4:00	30.003	41.123	34.757	44.974	30.009	5.013	23.58	6.299
10/5/2004 8:00	30.003	41.087	34.769	44.983	29.961	5.015	23.582	6.269
10/5/2004 12:00	29.995	41.034	34.761	44.946	29.953	5.013	23.584	6.276
10/5/2004 16:00	29.99	40.961	34.723	44.962	29.988	5.045	23.577	6.338
10/5/2004 20:00	29.973	40.955	34.735	44.939	30.007	5.054	23.577	6.376
10/6/2004 0:00	29.995	40.976	34.749	44.967	30.011	5.043	23.586	6.348
10/6/2004 4:00	30	40.991	34.757	44.969	30.022	5.041	23.588	6.325
10/6/2004 8:00	30.003	41.01	34.767	44.939	30.125	5.031	23.592	6.304
10/6/2004 12:00	30.023	41.044	34.789	44.978	30.043	5.031	23.598	6.363
10/6/2004 16:00	30.003	41.004	34.747	44.939	30.033	5.048	23.592	6.412
10/6/2004 20:00	30.005	40.997	34.747	44.969	30.033	5.048	23.596	6.419
10/7/2004 0:00	30.005	41.012	34.759	44.941	30.041	5.043	23.598	6.391
10/7/2004 4:00	30.008	41.008	34.753	44.962	30.043	5.049	23.598	6.364
10/7/2004 8:00	30.005	41.01	34.757	44.955	30.046	5.039	23.598	6.338
10/7/2004 12:00	30.013	41.025	34.771	44.962	30.052	5.039	23.602	6.31
10/7/2004 16:00	30.005	40.997	34.745	44.92	30.048	5.047	23.6	6.281
10/7/2004 20:00	30.008	41.01	34.761	44.955	30.063	5.028	23.602	6.268
10/8/2004 0:00	30.01	41.032	34.777	44.932	30.071	5.037	23.608	6.242
10/8/2004 4:00	30.02	41.036	34.779	44.955	30.075	5.006	23.609	6.215

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
10/8/2004 8:00	30.023	41.072	34.805	44.976	30.06	5.012	23.615	6.198
10/8/2004 12:00	30.04	41.104	34.825	44.983	30.045	5.028	23.621	6.211
10/8/2004 16:00	30.045	41.104	34.823	44.992	30.045	5.041	23.623	6.277
10/8/2004 20:00	30.062	41.151	34.856	44.978	30.071	5.01	23.633	6.336
10/9/2004 0:00	30.07	41.194	34.88	44.997	30.084	5.042	23.642	6.328
10/9/2004 4:00	30.07	41.2	34.88	45.031	30.091	5.03	23.644	6.298
10/9/2004 8:00	30.057	41.223	34.896	45.043	30.102	5.047	23.646	6.27
10/9/2004 12:00	30.09	41.236	34.902	45.048	30.112	5.034	23.654	6.279
10/9/2004 16:00	30.072	41.185	34.862	45.041	30.093	5.043	23.648	6.336
10/9/2004 20:00	30.072	41.198	34.882	45.015	30.104	5.049	23.656	6.379
10/10/2004 0:00	30.082	41.219	34.898	45.054	30.112	5.061	23.66	6.341
10/10/2004 4:00	30.082	41.217	34.898	45.022	30.112	5.057	23.662	6.303
10/10/2004 8:00	30.095	41.241	34.918	45.027	30.125	5.049	23.666	6.277
10/10/2004 12:00	30.087	41.26	34.922	45.031	30.168	5.044	23.669	6.292
10/10/2004 16:00	30.092	41.232	34.904	45.036	30.295	5.049	23.668	6.343
10/10/2004 20:00	30.104	41.26	34.932	45.071	30.198	5.038	23.675	6.379
10/11/2004 0:00	30.105	41.281	34.938	45.073	30.207	5.046	23.677	6.358
10/11/2004 4:00	30.107	41.279	34.938	45.052	30.209	5.05	23.681	6.339
10/11/2004 8:00	30.115	41.292	34.95	45.08	30.222	5.034	23.685	6.326
10/11/2004 12:00	30.114	41.311	34.956	45.052	30.231	5.044	23.689	6.343
10/11/2004 16:00	30.112	41.275	34.934	45.045	30.222	5.065	23.685	6.388
10/11/2004 20:00	30.117	41.283	34.946	45.082	30.229	5.052	23.691	6.398
10/12/2004 0:00	30.119	41.309	34.958	45.089	30.235	5.048	23.693	6.375
10/12/2004 4:00	30.107	41.279	34.93	45.073	30.222	5.036	23.691	6.32
10/12/2004 8:00	30.104	41.275	34.932	45.066	30.194	5.038	23.691	6.29
10/12/2004 12:00	30.109	41.27	34.932	45.029	30.177	5.039	23.691	6.28
10/12/2004 16:00	30.107	41.241	34.914	45.048	30.162	5.054	23.687	6.322
10/12/2004 20:00	30.109	41.262	34.932	45.024	30.171	5.054	23.693	6.337
10/13/2004 0:00	30.117	41.283	34.944	45.054	30.177	5.052	23.695	6.312
10/13/2004 4:00	30.11	41.285	34.944	45.048	30.173	5.035	23.695	6.284
10/13/2004 8:00	30.117	41.317	34.972	45.031	30.181	5.031	23.7	6.269
10/13/2004 12:00	30.137	41.36	34.994	45.075	30.203	5.035	23.71	6.297
10/13/2004 16:00	30.145	41.378	35.006	45.087	30.211	5.054	23.714	6.331
10/13/2004 20:00	30.154	41.418	35.028	45.105	30.278	5.044	23.722	6.337
10/14/2004 0:00	30.159	41.431	35.028	45.112	30.293	5.05	23.724	6.314
10/14/2004 4:00	30.149	41.401	35.004	45.103	30.287	5.027	23.722	6.284
10/14/2004 8:00	30.142	41.394	35.002	45.096	30.285	5.035	23.722	6.257
10/14/2004 12:00	30.147	41.375	34.988	45.091	30.287	5.039	23.722	6.246
10/14/2004 16:00	30.127	41.324	34.958	45.075	30.276	5.039	23.712	6.263
10/14/2004 20:00	30.127	41.32	34.968	45.041	30.237	5.035	23.712	6.28
10/15/2004 0:00	30.134	41.326	34.97	45.068	30.226	5.037	23.716	6.268
10/15/2004 4:00	30.132	41.332	34.976	45.064	30.22	5.051	23.718	6.249
10/15/2004 8:00	30.135	41.377	35.012	45.075	30.226	5.043	23.726	6.236
10/15/2004 12:00	30.159	41.42	35.036	45.091	30.246	5.043	23.733	6.255
10/15/2004 16:00	30.167	41.437	35.037	45.101	30.252	5.08	23.737	6.283
10/15/2004 20:00	30.182	41.49	35.081	45.124	30.27	5.064	23.747	6.3
10/16/2004 0:00	30.197	41.529	35.097	45.142	30.293	5.062	23.755	6.287
10/16/2004 4:00	30.202	41.548	35.113	45.124	30.302	5.051	23.759	6.27
10/16/2004 8:00	30.207	41.569	35.131	45.138	30.306	5.064	23.764	6.251
10/16/2004 12:00	30.222	41.595	35.139	45.149	30.317	5.061	23.768	6.253
10/16/2004 16:00	30.212	41.559	35.111	45.177	30.313	5.074	23.766	6.279

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
10/16/2004 20:00	30.217	41.563	35.125	45.189	30.321	5.059	23.772	6.291
10/17/2004 0:00	30.222	41.582	35.141	45.193	30.332	5.059	23.776	6.279
10/17/2004 4:00	30.222	41.582	35.139	45.165	30.33	5.049	23.778	6.253
10/17/2004 8:00	30.216	41.587	35.141	45.193	30.326	5.053	23.78	6.23
10/17/2004 12:00	30.219	41.572	35.127	45.191	30.33	5.057	23.78	6.228
10/17/2004 16:00	30.202	41.512	35.081	45.14	30.317	5.084	23.768	6.258
10/17/2004 20:00	30.204	41.514	35.099	45.168	30.315	5.1	23.772	6.283
10/18/2004 0:00	30.202	41.514	35.089	45.163	30.317	5.074	23.772	6.266
10/18/2004 4:00	30.189	41.48	35.061	45.142	30.308	5.067	23.766	6.243
10/18/2004 8:00	30.199	41.505	35.097	45.152	30.313	5.086	23.774	6.243
10/18/2004 12:00	30.204	41.531	35.117	45.158	30.321	5.069	23.78	6.245
10/18/2004 16:00	30.212	41.563	35.139	45.14	30.332	5.073	23.786	6.249
10/18/2004 20:00	30.239	41.627	35.187	45.175	30.351	5.083	23.795	6.247
10/19/2004 0:00	30.241	41.659	35.197	45.189	30.366	5.061	23.801	6.226
10/19/2004 4:00	30.256	41.676	35.207	45.225	30.377	5.059	23.807	6.209
10/19/2004 8:00	30.269	41.727	35.252	45.221	30.394	5.085	23.817	6.205
10/19/2004 12:00	30.279	41.742	35.252	45.235	30.401	5.069	23.82	6.19
10/19/2004 16:00	30.271	41.727	35.244	45.269	30.407	5.071	23.822	6.211
10/19/2004 20:00	30.291	41.77	35.278	45.262	30.433	5.066	23.83	6.228
10/20/2004 0:00	30.294	41.792	35.282	45.297	30.433	5.071	23.836	6.201
10/20/2004 4:00	30.303	41.789	35.282	45.309	30.44	5.064	23.84	6.186
10/20/2004 8:00	30.301	41.806	35.3	45.29	30.444	5.066	23.844	6.177
10/20/2004 12:00	30.306	41.821	35.312	45.297	30.45	5.058	23.848	6.165
10/20/2004 16:00	30.298	41.787	35.29	45.323	30.446	5.069	23.846	6.156
10/20/2004 20:00	30.309	41.794	35.306	45.329	30.448	5.058	23.85	6.152
10/21/2004 0:00	30.311	41.811	35.314	45.334	30.455	5.062	23.853	6.137
10/21/2004 4:00	30.303	41.794	35.298	45.329	30.453	5.056	23.851	6.118
10/21/2004 8:00	30.311	41.794	35.302	45.325	30.459	5.056	23.851	6.107
10/21/2004 12:00	30.303	41.781	35.294	45.323	30.45	5.049	23.852	6.093
10/21/2004 16:00	30.294	41.755	35.272	45.306	30.437	5.051	23.846	6.076
10/21/2004 20:00	30.298	41.764	35.29	45.316	30.448	5.064	23.85	6.071
10/22/2004 0:00	30.286	41.77	35.288	45.281	30.444	5.064	23.851	6.059
10/22/2004 4:00	30.291	41.748	35.274	45.299	30.435	5.051	23.846	6.042
10/22/2004 8:00	30.294	41.751	35.282	45.262	30.44	5.054	23.846	6.042
10/22/2004 12:00	30.284	41.747	35.268	45.256	30.433	5.049	23.846	6.038
10/22/2004 16:00	30.272	41.71	35.248	45.237	30.42	5.07	23.838	6.057
10/22/2004 20:00	30.279	41.723	35.266	45.272	30.429	5.068	23.844	6.074
10/23/2004 0:00	30.281	41.715	35.256	45.267	30.425	5.039	23.842	6.065
10/23/2004 4:00	30.289	41.749	35.294	45.274	30.435	5.033	23.85	6.069
10/23/2004 8:00	30.267	41.823	35.352	45.272	30.461	5.039	23.851	6.082
10/23/2004 12:00	30.334	41.868	35.373	45.295	30.483	5.049	23.871	6.091
10/23/2004 16:00	30.331	41.873	35.374	45.343	30.487	5.076	23.873	6.112
10/23/2004 20:00	30.346	41.898	35.392	45.329	30.506	5.066	23.881	6.127
10/24/2004 0:00	30.344	41.918	35.402	45.369	30.515	5.066	23.886	6.116
10/24/2004 4:00	30.341	41.913	35.402	45.376	30.515	5.059	23.889	6.104
10/24/2004 8:00	30.356	41.924	35.412	45.38	30.521	5.065	23.892	6.097
10/24/2004 12:00	30.358	41.922	35.396	45.383	30.521	5.074	23.892	6.099
10/24/2004 16:00	30.353	41.892	35.378	45.376	30.565	5.09	23.89	6.127
10/24/2004 20:00	30.358	41.93	35.419	45.394	30.59	5.086	23.898	6.151
10/25/2004 0:00	30.376	41.986	35.459	45.41	30.612	5.082	23.908	6.153
10/25/2004 4:00	30.386	42.022	35.477	45.394	30.623	5.077	23.914	6.142

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
10/25/2004 8:00	30.401	42.054	35.501	45.447	30.642	5.065	23.924	6.138
10/25/2004 12:00	30.411	42.058	35.507	45.417	30.651	5.071	23.927	6.132
10/25/2004 16:00	30.4	41.992	35.473	45.445	30.612	5.09	23.925	6.136
10/25/2004 20:00	30.405	41.969	35.495	45.461	30.593	5.092	23.931	6.144
10/26/2004 0:00	30.407	41.956	35.497	45.431	30.58	5.098	23.933	6.134
10/26/2004 4:00	30.393	41.928	35.475	45.45	30.56	5.079	23.931	6.115
10/26/2004 8:00	30.385	41.924	35.487	45.42	30.547	5.059	23.935	6.102
10/26/2004 12:00	30.39	41.924	35.499	45.452	30.545	5.059	23.937	6.094
10/26/2004 16:00	30.39	41.922	35.505	45.424	30.534	5.084	23.939	6.083
10/26/2004 20:00	30.407	41.962	35.545	45.475	30.549	5.082	23.947	6.091
10/27/2004 0:00	30.417	41.997	35.562	45.459	30.567	5.079	23.954	6.087
10/27/2004 4:00	30.417	42.003	35.569	45.466	30.562	5.091	23.958	6.074
10/27/2004 8:00	30.425	42.022	35.591	45.484	30.573	5.079	23.964	6.072
10/27/2004 12:00	30.42	42.041	35.602	45.521	30.586	5.085	23.972	6.066
10/27/2004 16:00	30.432	41.999	35.574	45.519	30.575	5.085	23.966	6.049
10/27/2004 20:00	30.425	41.988	35.579	45.521	30.573	5.083	23.968	6.045
10/28/2004 0:00	30.432	41.988	35.579	45.521	30.58	5.091	23.97	6.036
10/28/2004 4:00	30.405	41.962	35.575	45.484	30.549	5.075	23.962	6.017
10/28/2004 8:00	30.395	41.928	35.557	45.503	30.528	5.056	23.956	6.007
10/28/2004 12:00	30.395	41.909	35.547	45.489	30.519	5.06	23.954	5.994
10/28/2004 16:00	30.373	41.851	35.511	45.468	30.498	5.058	23.945	5.986
10/28/2004 20:00	30.38	41.849	35.531	45.463	30.496	5.065	23.947	5.996
10/29/2004 0:00	30.387	41.858	35.533	45.433	30.493	5.064	23.949	5.986
10/29/2004 4:00	30.375	41.834	35.521	45.424	30.483	5.054	23.947	5.973
10/29/2004 8:00	30.373	41.819	35.517	45.44	30.47	5.048	23.941	5.966
10/29/2004 12:00	30.368	41.798	35.499	45.396	30.465	5.046	23.939	5.962
10/29/2004 16:00	30.358	41.759	35.479	45.417	30.455	5.054	23.933	5.964
10/29/2004 20:00	30.373	41.824	35.552	45.438	30.463	5.045	23.947	5.986
10/30/2004 0:00	30.383	41.853	35.563	45.45	30.478	5.056	23.954	5.984
10/30/2004 4:00	30.388	41.874	35.58	45.459	30.483	5.056	23.96	5.979
10/30/2004 8:00	30.403	41.928	35.626	45.459	30.491	5.062	23.972	5.984
10/30/2004 12:00	30.418	41.971	35.652	45.484	30.513	5.068	23.982	5.988
10/30/2004 16:00	30.425	41.973	35.638	45.521	30.517	5.08	23.984	5.984
10/30/2004 20:00	30.433	41.994	35.664	45.544	30.528	5.082	23.989	5.992
10/31/2004 0:00	30.425	42.003	35.662	45.549	30.537	5.078	23.987	5.981
10/31/2004 4:00	30.437	41.994	35.656	45.521	30.534	5.064	23.993	5.971
10/31/2004 8:00	30.435	42.012	35.674	45.558	30.539	5.049	23.997	5.969
10/31/2004 12:00	30.442	42.015	35.676	45.533	30.552	5.066	23.999	5.963
10/31/2004 16:00	30.435	41.96	35.634	45.556	30.539	5.062	23.995	5.954
10/31/2004 20:00	30.423	41.956	35.648	45.553	30.537	5.075	23.993	5.956
11/1/2004 0:00	30.438	41.969	35.658	45.565	30.543	5.084	24.001	5.954
11/1/2004 4:00	30.433	41.954	35.65	45.556	30.539	5.065	23.997	5.941
11/1/2004 8:00	30.42	41.962	35.662	45.551	30.504	5.061	23.995	5.931
11/1/2004 12:00	30.42	41.973	35.684	45.565	30.506	5.063	23.993	5.937
11/1/2004 16:00	30.403	41.979	35.694	45.569	30.502	5.061	23.987	5.933
11/1/2004 20:00	30.435	42.047	35.759	45.602	30.521	5.057	24.003	5.95
11/2/2004 0:00	30.46	42.094	35.785	45.63	30.543	5.073	24.022	5.956
11/2/2004 4:00	30.475	42.118	35.797	45.65	30.556	5.075	24.03	5.956
11/2/2004 8:00	30.485	42.14	35.813	45.673	30.562	5.067	24.036	5.956
11/2/2004 12:00	30.433	42.159	35.821	45.662	30.569	5.078	24.03	5.954
11/2/2004 16:00	30.495	42.14	35.815	45.697	30.571	5.082	24.045	5.946

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/2/2004 20:00	30.5	42.152	35.831	45.681	30.582	5.082	24.049	5.948
11/3/2004 0:00	30.487	42.135	35.819	45.685	30.582	5.088	24.051	5.939
11/3/2004 4:00	30.487	42.11	35.807	45.708	30.577	5.069	24.049	5.931
11/3/2004 8:00	30.485	42.094	35.805	45.699	30.562	5.063	24.047	5.925
11/3/2004 12:00	30.473	42.065	35.779	45.683	30.552	5.081	24.045	5.91
11/3/2004 16:00	30.458	41.996	35.74	45.655	30.53	5.073	24.034	5.893
11/3/2004 20:00	30.455	42.009	35.766	45.655	30.694	5.071	24.036	5.897
11/4/2004 0:00	30.43	41.992	35.757	45.646	30.504	5.063	24.005	5.886
11/4/2004 4:00	30.425	41.988	35.775	45.648	30.489	5.059	24.005	5.891
11/4/2004 8:00	30.435	42.022	35.821	45.637	30.489	5.071	24.018	5.904
11/4/2004 12:00	30.46	42.094	35.875	45.673	30.504	5.067	24.038	5.921
11/4/2004 16:00	30.471	42.101	35.873	45.72	30.511	5.081	24.047	5.914
11/4/2004 20:00	30.475	42.109	35.885	45.734	30.515	5.064	24.053	5.918
11/5/2004 0:00	30.475	42.103	35.879	45.713	30.515	5.058	24.057	5.912
11/5/2004 4:00	30.47	42.073	35.861	45.706	30.506	5.07	24.055	5.897
11/5/2004 8:00	30.463	42.041	35.847	45.699	30.5	5.064	24.055	5.885
11/5/2004 12:00	30.451	42.007	35.823	45.68	30.485	5.062	24.049	5.876
11/5/2004 16:00	30.438	41.939	35.788	45.653	30.459	5.07	24.04	5.863
11/5/2004 20:00	30.436	41.939	35.809	45.683	30.459	5.058	24.04	5.868
11/6/2004 0:00	30.418	41.936	35.807	45.676	30.455	5.062	24.036	5.863
11/6/2004 4:00	30.423	41.947	35.819	45.678	30.457	5.054	24.042	5.865
11/6/2004 8:00	30.428	41.947	35.821	45.673	30.459	5.046	24.044	5.859
11/6/2004 12:00	30.436	41.958	35.831	45.643	30.461	5.058	24.047	5.857
11/6/2004 16:00	30.423	41.92	35.803	45.664	30.455	5.047	24.042	5.849
11/6/2004 20:00	30.433	41.953	35.843	45.653	30.465	5.045	24.049	5.866
11/7/2004 0:00	30.44	41.992	35.871	45.694	30.476	5.039	24.057	5.872
11/7/2004 4:00	30.453	42.029	35.897	45.687	30.491	5.037	24.065	5.874
11/7/2004 8:00	30.475	42.097	35.94	45.747	30.515	5.047	24.075	5.889
11/7/2004 12:00	30.497	42.155	35.968	45.778	30.541	5.058	24.084	5.897
11/7/2004 16:00	30.495	42.137	35.953	45.789	30.552	5.053	24.086	5.885
11/7/2004 20:00	30.502	42.159	35.97	45.805	30.562	5.076	24.092	5.893
11/8/2004 0:00	30.495	42.184	35.986	45.826	30.573	5.068	24.092	5.898
11/8/2004 4:00	30.51	42.186	35.982	45.831	30.576	5.055	24.1	5.889
11/8/2004 8:00	30.522	42.204	36.002	45.842	30.591	5.076	24.106	5.893
11/8/2004 12:00	30.515	42.223	35.988	45.812	30.584	5.069	24.107	5.881
11/8/2004 16:00	30.492	42.17	35.947	45.828	30.563	5.063	24.1	5.862
11/8/2004 20:00	30.51	42.17	35.958	45.824	30.569	5.051	24.102	5.866
11/9/2004 0:00	30.507	42.173	35.968	45.794	30.571	5.055	24.104	5.866
11/9/2004 4:00	30.502	42.163	35.962	45.789	30.562	5.047	24.104	5.86
11/9/2004 8:00	30.505	42.159	35.968	45.817	30.571	5.043	24.104	5.857
11/9/2004 12:00	30.502	42.159	35.964	45.78	30.573	5.059	24.104	5.853
11/9/2004 16:00	30.492	42.112	35.932	45.771	30.558	5.051	24.098	5.838
11/9/2004 20:00	30.49	42.116	35.942	45.789	30.556	5.039	24.098	5.84
11/10/2004 0:00	30.49	42.133	35.955	45.761	30.56	5.038	24.102	5.845
11/10/2004 4:00	30.465	42.129	35.954	45.784	30.554	5.011	24.098	5.84
11/10/2004 8:00	30.49	42.126	35.953	45.752	30.558	5.015	24.102	5.836
11/10/2004 12:00	30.497	42.148	35.97	45.782	30.567	5.019	24.106	5.843
11/10/2004 16:00	30.497	42.156	35.98	45.759	30.569	5.03	24.109	5.84
11/10/2004 20:00	30.509	42.204	36.02	45.812	30.638	5.026	24.115	5.851
11/11/2004 0:00	30.522	42.25	36.034	45.838	30.606	5.048	24.123	5.86
11/11/2004 4:00	30.522	42.276	36.052	45.819	30.608	5.081	24.127	5.857

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/11/2004 8:00	30.542	42.308	36.072	45.84	30.621	5.067	24.135	5.866
11/11/2004 12:00	30.55	42.332	36.074	45.851	30.638	5.053	24.137	5.862
11/11/2004 16:00	30.537	42.291	36.048	45.847	30.627	5.071	24.137	5.847
11/11/2004 20:00	30.55	42.299	36.066	45.861	30.634	5.068	24.14	5.851
11/12/2004 0:00	30.557	42.317	36.076	45.874	30.649	5.05	24.146	5.853
11/12/2004 4:00	30.55	42.314	36.078	45.881	30.642	5.052	24.148	5.851
11/12/2004 8:00	30.559	42.327	36.094	45.888	30.647	5.054	24.152	5.856
11/12/2004 12:00	30.567	42.353	36.102	45.93	30.664	5.068	24.156	5.858
11/12/2004 16:00	30.559	42.329	36.09	45.928	30.655	5.062	24.156	5.849
11/12/2004 20:00	30.577	42.351	36.114	45.918	30.672	5.064	24.161	5.856
11/13/2004 0:00	30.582	42.374	36.126	45.935	30.686	5.06	24.167	5.86
11/13/2004 4:00	30.579	42.378	36.127	45.967	30.683	5.066	24.169	5.858
11/13/2004 8:00	30.574	42.385	36.135	45.976	30.683	5.052	24.173	5.862
11/13/2004 12:00	30.587	42.396	36.133	45.976	30.694	5.068	24.175	5.858
11/13/2004 16:00	30.564	42.366	36.122	45.972	30.683	5.076	24.173	5.849
11/13/2004 20:00	30.587	42.372	36.137	45.972	30.69	5.076	24.177	5.851
11/14/2004 0:00	30.584	42.389	36.145	45.976	30.705	5.084	24.179	5.853
11/14/2004 4:00	30.589	42.393	36.141	45.946	30.701	5.074	24.181	5.851
11/14/2004 8:00	30.592	42.389	36.15	45.978	30.698	5.093	24.185	5.851
11/14/2004 12:00	30.589	42.406	36.156	45.988	30.709	5.091	24.186	5.851
11/14/2004 16:00	30.597	42.378	36.147	45.951	30.705	5.105	24.185	5.845
11/14/2004 20:00	30.599	42.402	36.162	45.951	30.707	5.113	24.189	5.849
11/15/2004 0:00	30.604	42.428	36.164	45.985	30.718	5.078	24.193	5.849
11/15/2004 4:00	30.599	42.413	36.163	45.958	30.714	5.113	24.192	5.845
11/15/2004 8:00	30.589	42.415	36.168	45.983	30.707	5.125	24.195	5.843
11/15/2004 12:00	30.602	42.415	36.167	45.995	30.711	5.121	24.196	5.841
11/15/2004 16:00	30.594	42.389	36.151	45.983	30.705	5.111	24.192	5.833
11/15/2004 20:00	30.594	42.381	36.153	45.983	30.703	5.113	24.192	5.83
11/16/2004 0:00	30.597	42.376	36.153	45.946	30.707	5.115	24.192	5.828
11/16/2004 4:00	30.594	42.372	36.149	45.972	30.705	5.121	24.195	5.824
11/16/2004 8:00	30.584	42.372	36.157	45.965	30.698	5.103	24.195	5.826
11/16/2004 12:00	30.594	42.381	36.155	45.962	30.709	5.09	24.195	5.822
11/16/2004 16:00	30.589	42.359	36.145	45.951	30.707	5.103	24.193	5.818
11/16/2004 20:00	30.597	42.376	36.161	45.96	30.714	5.111	24.197	5.818
11/17/2004 0:00	30.602	42.387	36.173	45.972	30.718	5.108	24.2	5.822
11/17/2004 4:00	30.599	42.404	36.181	45.976	30.722	5.104	24.191	5.822
11/17/2004 8:00	30.609	42.415	36.189	45.985	30.724	5.11	24.204	5.822
11/17/2004 12:00	30.617	42.432	36.195	45.995	30.726	5.11	24.208	5.822
11/17/2004 16:00	30.612	42.406	36.179	45.992	30.72	5.11	24.206	5.813
11/17/2004 20:00	30.617	42.421	36.203	46.009	30.729	5.104	24.212	5.82
11/18/2004 0:00	30.622	42.432	36.205	46.015	30.733	5.127	24.214	5.82
11/18/2004 4:00	30.624	42.425	36.203	45.988	30.737	5.125	24.216	5.816
11/18/2004 8:00	30.622	42.428	36.209	45.992	30.739	5.114	24.218	5.818
11/18/2004 12:00	30.622	42.423	36.205	46.018	30.731	5.114	24.22	5.809
11/18/2004 16:00	30.612	42.387	36.187	45.978	30.726	5.112	24.216	5.803
11/18/2004 20:00	30.612	42.387	36.195	46.013	30.722	5.098	24.216	5.803
11/19/2004 0:00	30.584	42.374	36.193	45.976	30.707	5.106	24.212	5.801
11/19/2004 4:00	30.592	42.353	36.185	45.962	30.698	5.098	24.21	5.797
11/19/2004 8:00	30.594	42.34	36.189	45.981	30.694	5.102	24.21	5.797
11/19/2004 12:00	30.607	42.355	36.207	45.967	30.696	5.106	24.216	5.801
11/19/2004 16:00	30.599	42.336	36.199	45.962	30.692	5.091	24.214	5.795

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/19/2004 20:00	30.604	42.378	36.237	45.985	30.705	5.083	24.224	5.807
11/20/2004 0:00	30.614	42.4	36.241	46.02	30.716	5.087	24.228	5.809
11/20/2004 4:00	30.629	42.423	36.255	46.027	30.724	5.095	24.231	5.816
11/20/2004 8:00	30.634	42.455	36.277	46.043	30.742	5.091	24.237	5.824
11/20/2004 12:00	30.631	42.487	36.285	46.057	30.75	5.097	24.243	5.829
11/20/2004 16:00	30.649	42.481	36.281	46.076	30.754	5.112	24.245	5.822
11/20/2004 20:00	30.664	42.522	36.313	46.096	30.78	5.126	24.251	5.835
11/21/2004 0:00	30.639	42.549	36.322	46.115	30.782	5.109	24.255	5.841
11/21/2004 4:00	30.664	42.545	36.314	46.089	30.785	5.107	24.26	5.833
11/21/2004 8:00	30.669	42.547	36.324	46.122	30.793	5.099	24.264	5.835
11/21/2004 12:00	30.676	42.545	36.318	46.124	30.793	5.101	24.266	5.831
11/21/2004 16:00	30.679	42.492	36.289	46.112	30.781	5.093	24.262	5.814
11/21/2004 20:00	30.671	42.49	36.303	46.122	30.785	5.103	24.266	5.818
11/22/2004 0:00	30.669	42.479	36.313	46.119	30.78	5.101	24.266	5.82
11/22/2004 4:00	30.651	42.443	36.287	46.096	30.77	5.079	24.262	5.805
11/22/2004 8:00	30.654	42.434	36.293	46.052	30.77	5.115	24.264	5.807
11/22/2004 12:00	30.654	42.423	36.285	46.041	30.77	5.113	24.262	5.801
11/22/2004 16:00	30.639	42.381	36.265	46.045	30.754	5.136	24.257	5.791
11/22/2004 20:00	30.644	42.381	36.281	46.018	30.763	5.13	24.259	5.795
11/23/2004 0:00	30.646	42.396	36.291	46.02	30.765	5.134	24.26	5.797
11/23/2004 4:00	30.622	42.398	36.291	46.048	30.759	5.128	24.262	5.797
11/23/2004 8:00	30.651	42.425	36.32	46.022	30.772	5.14	24.268	5.805
11/23/2004 12:00	30.664	42.455	36.328	46.062	30.796	5.128	24.272	5.81
11/23/2004 16:00	30.651	42.425	36.307	46.025	30.785	5.113	24.27	5.797
11/23/2004 20:00	30.666	42.436	36.326	46.043	30.789	5.113	24.276	5.803
11/24/2004 0:00	30.669	42.46	36.34	46.085	30.798	5.141	24.28	5.808
11/24/2004 4:00	30.662	42.451	36.334	46.085	30.791	5.152	24.28	5.801
11/24/2004 8:00	30.669	42.458	36.344	46.085	30.796	5.152	24.28	5.803
11/24/2004 12:00	30.674	42.477	36.346	46.057	30.802	5.141	24.284	5.803
11/24/2004 16:00	30.669	42.466	36.34	46.055	30.798	5.154	24.284	5.797
11/24/2004 20:00	30.686	42.502	36.368	46.103	30.813	5.16	24.289	5.81
11/25/2004 0:00	30.686	42.517	36.368	46.108	30.819	5.143	24.291	5.81
11/25/2004 4:00	30.662	42.496	36.356	46.108	30.809	5.176	24.288	5.801
11/25/2004 8:00	30.677	42.475	36.34	46.094	30.804	5.159	24.289	5.791
11/25/2004 12:00	30.686	42.47	36.346	46.089	30.809	5.159	24.289	5.791
11/25/2004 16:00	30.667	42.425	36.326	46.078	30.796	5.151	24.286	5.78
11/25/2004 20:00	30.677	42.447	36.354	46.082	30.807	5.158	24.289	5.791
11/26/2004 0:00	30.679	42.46	36.354	46.08	30.813	5.157	24.291	5.788
11/26/2004 4:00	30.674	42.453	36.354	46.048	30.804	5.149	24.291	5.784
11/26/2004 8:00	30.674	42.453	36.36	46.064	30.804	5.11	24.291	5.784
11/26/2004 12:00	30.682	42.464	36.36	46.071	30.813	5.137	24.293	5.786
11/26/2004 16:00	30.667	42.421	36.342	46.05	30.804	5.147	24.288	5.776
11/26/2004 20:00	30.682	42.451	36.368	46.071	30.815	5.153	24.295	5.784
11/27/2004 0:00	30.669	42.468	36.374	46.078	30.822	5.139	24.289	5.786
11/27/2004 4:00	30.684	42.502	36.408	46.066	30.815	5.143	24.303	5.799
11/27/2004 8:00	30.696	42.554	36.436	46.122	30.832	5.145	24.309	5.814
11/27/2004 12:00	30.709	42.598	36.452	46.115	30.85	5.153	24.315	5.822
11/27/2004 16:00	30.716	42.588	36.44	46.156	30.852	5.163	24.319	5.814
11/27/2004 20:00	30.709	42.613	36.466	46.161	30.865	5.165	24.324	5.825
11/28/2004 0:00	30.736	42.628	36.466	46.177	30.88	5.163	24.33	5.827
11/28/2004 4:00	30.741	42.626	36.472	46.226	30.882	5.163	24.336	5.827

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/28/2004 8:00	30.741	42.631	36.478	46.228	30.882	5.138	24.34	5.829
11/28/2004 12:00	30.744	42.622	36.468	46.228	30.884	5.147	24.34	5.822
11/28/2004 16:00	30.749	42.588	36.458	46.2	30.875	5.167	24.34	5.81
11/28/2004 20:00	30.749	42.598	36.482	46.216	30.88	5.157	24.344	5.818
11/29/2004 0:00	30.758	42.633	36.497	46.263	30.897	5.178	24.35	5.827
11/29/2004 4:00	30.761	42.654	36.502	46.263	30.884	5.169	24.353	5.823
11/29/2004 8:00	30.753	42.671	36.519	46.249	30.873	5.152	24.357	5.825
11/29/2004 12:00	30.763	42.705	36.517	46.253	30.888	5.161	24.361	5.825
11/29/2004 16:00	30.763	42.695	36.513	46.258	30.886	5.152	24.353	5.822
11/29/2004 20:00	30.773	42.716	36.547	46.286	30.884	5.185	24.348	5.835
11/30/2004 0:00	30.761	42.703	36.533	46.32	30.88	5.167	24.348	5.829
11/30/2004 4:00	30.751	42.665	36.513	46.279	30.865	5.171	24.346	5.818
11/30/2004 8:00	30.746	42.637	36.521	46.295	30.856	5.154	24.35	5.818
11/30/2004 12:00	30.744	42.628	36.515	46.281	30.847	5.169	24.35	5.812
11/30/2004 16:00	30.714	42.592	36.509	46.265	30.83	5.15	24.348	5.803
11/30/2004 20:00	30.736	42.596	36.529	46.281	30.828	5.169	24.35	5.808
12/1/2004 0:00	30.736	42.609	36.543	46.3	30.83	5.156	24.356	5.816
12/1/2004 4:00	30.739	42.609	36.551	46.304	30.837	5.17	24.362	5.818
12/1/2004 8:00	30.746	42.622	36.563	46.316	30.837	5.181	24.367	5.823
12/1/2004 12:00	30.753	42.648	36.575	46.3	30.85	5.173	24.371	5.827
12/1/2004 16:00	30.749	42.62	36.561	46.293	30.841	5.173	24.373	5.816
12/1/2004 20:00	30.756	42.617	36.573	46.337	30.843	5.164	24.377	5.818
12/2/2004 0:00	30.756	42.615	36.573	46.339	30.841	5.166	24.377	5.816
12/2/2004 4:00	30.753	42.607	36.579	46.316	30.841	5.175	24.381	5.818
12/2/2004 8:00	30.751	42.598	36.583	46.341	30.835	5.154	24.381	5.816
12/2/2004 12:00	30.761	42.62	36.593	46.35	30.843	5.181	24.385	5.823
12/2/2004 16:00	30.729	42.601	36.589	46.346	30.832	5.17	24.387	5.814
12/2/2004 20:00	30.761	42.601	36.593	46.314	30.839	5.164	24.389	5.814
12/3/2004 0:00	30.758	42.586	36.591	46.355	30.837	5.149	24.391	5.81
12/3/2004 4:00	30.756	42.577	36.597	46.346	30.835	5.142	24.391	5.808
12/3/2004 8:00	30.739	42.558	36.587	46.3	30.822	5.145	24.391	5.801
12/3/2004 12:00	30.751	42.558	36.595	46.32	30.819	5.145	24.391	5.806
12/3/2004 16:00	30.741	42.53	36.581	46.304	30.85	5.133	24.387	5.795
12/3/2004 20:00	30.739	42.534	36.597	46.309	30.813	5.164	24.391	5.799
12/4/2004 0:00	30.744	42.532	36.599	46.304	30.815	5.158	24.393	5.799
12/4/2004 4:00	30.741	42.515	36.595	46.29	30.811	5.143	24.391	5.793
12/4/2004 8:00	30.746	42.517	36.599	46.281	30.805	5.145	24.391	5.795
12/4/2004 12:00	30.749	42.543	36.615	46.29	30.809	5.141	24.394	5.801
12/4/2004 16:00	30.756	42.543	36.619	46.295	30.805	5.141	24.394	5.797
12/4/2004 20:00	30.756	42.571	36.635	46.288	30.811	5.143	24.4	5.808
12/5/2004 0:00	30.761	42.59	36.639	46.33	30.815	5.122	24.404	5.81
12/5/2004 4:00	30.761	42.581	36.635	46.332	30.817	5.122	24.404	5.806
12/5/2004 8:00	30.756	42.554	36.625	46.318	30.813	5.124	24.404	5.797
12/5/2004 12:00	30.746	42.53	36.603	46.302	30.803	5.124	24.4	5.786
12/5/2004 16:00	30.719	42.468	36.581	46.244	30.736	5.087	24.385	5.765
12/5/2004 20:00	30.697	42.443	36.609	46.274	30.69	5.087	24.321	5.776
12/6/2004 0:00	30.672	42.425	36.621	46.279	30.684	5.099	24.3	5.78
12/6/2004 4:00	30.66	42.432	36.641	46.255	30.678	5.079	24.3	5.788
12/6/2004 8:00	30.672	42.434	36.647	46.267	30.68	5.114	24.309	5.789
12/6/2004 12:00	30.669	42.434	36.651	46.295	30.671	5.093	24.317	5.786
12/6/2004 16:00	30.655	42.385	36.627	46.251	30.65	5.099	24.317	5.769

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
12/6/2004 20:00	30.657	42.389	36.657	46.3	30.656	5.105	24.323	5.776
12/7/2004 0:00	30.657	42.378	36.647	46.302	30.643	5.111	24.327	5.769
12/7/2004 4:00	30.657	42.376	36.661	46.313	30.641	5.097	24.332	5.774
12/7/2004 8:00	30.669	42.428	36.694	46.344	30.658	5.122	24.344	5.788
12/7/2004 12:00	30.689	42.474	36.71	46.371	30.676	5.103	24.356	5.797
12/7/2004 16:00	30.694	42.468	36.702	46.378	30.678	5.118	24.362	5.788
12/7/2004 20:00	30.699	42.475	36.704	46.364	30.684	5.113	24.367	5.788
12/8/2004 0:00	30.702	42.5	36.72	46.408	30.689	5.124	24.377	5.795
12/8/2004 4:00	30.674	42.468	36.704	46.378	30.676	5.136	24.375	5.782
12/8/2004 8:00	30.699	42.457	36.712	46.411	30.676	5.125	24.379	5.782
12/8/2004 12:00	30.687	42.438	36.695	46.369	30.667	5.121	24.377	5.765
12/8/2004 16:00	30.665	42.357	36.661	46.362	30.643	5.13	24.368	5.746
12/8/2004 20:00	30.677	42.37	36.695	46.35	30.654	5.125	24.374	5.759
12/9/2004 0:00	30.655	42.367	36.695	46.369	30.65	5.121	24.372	5.757
12/9/2004 4:00	30.669	42.37	36.7	46.371	30.643	5.119	24.377	5.752
12/9/2004 8:00	30.672	42.374	36.704	46.364	30.641	5.121	24.377	5.752
12/9/2004 12:00	30.677	42.385	36.708	46.332	30.648	5.111	24.379	5.75
12/9/2004 16:00	30.674	42.374	36.712	46.332	30.643	5.105	24.379	5.752
12/9/2004 20:00	30.702	42.434	36.746	46.38	30.669	5.119	24.393	5.769
12/10/2004 0:00	30.712	42.474	36.758	46.404	30.691	5.139	24.401	5.78
12/10/2004 4:00	30.712	42.491	36.762	46.415	30.695	5.107	24.405	5.78
12/10/2004 8:00	30.719	42.511	36.774	46.461	30.704	5.129	24.41	5.786
12/10/2004 12:00	30.739	42.554	36.79	46.445	30.727	5.112	24.418	5.795
12/10/2004 16:00	30.719	42.562	36.792	46.487	30.732	5.127	24.418	5.795
12/10/2004 20:00	30.754	42.587	36.802	46.501	30.749	5.127	24.428	5.801
12/11/2004 0:00	30.759	42.59	36.794	46.478	30.76	5.135	24.43	5.797
12/11/2004 4:00	30.746	42.573	36.792	46.473	30.755	5.094	24.432	5.791
12/11/2004 8:00	30.734	42.564	36.798	46.501	30.753	5.121	24.43	5.791
12/11/2004 12:00	30.752	42.549	36.786	46.487	30.755	5.102	24.432	5.782
12/11/2004 16:00	30.719	42.476	36.752	46.461	30.734	5.15	24.422	5.759
12/11/2004 20:00	30.729	42.451	36.76	46.413	30.725	5.15	24.422	5.761
12/12/2004 0:00	30.732	42.427	36.756	46.397	30.723	5.162	24.42	5.754
12/12/2004 4:00	30.719	42.432	36.774	46.418	30.719	5.148	24.42	5.761
12/12/2004 8:00	30.739	42.491	36.816	46.443	30.734	5.156	24.432	5.78
12/12/2004 12:00	30.769	42.596	36.848	46.493	30.772	5.159	24.445	5.807
12/12/2004 16:00	30.759	42.615	36.841	46.475	30.783	5.153	24.445	5.805
12/12/2004 20:00	30.794	42.645	36.861	46.507	30.803	5.176	24.457	5.816
12/13/2004 0:00	30.808	42.692	36.875	46.533	30.828	5.174	24.463	5.825
12/13/2004 4:00	30.804	42.701	36.882	46.57	30.839	5.19	24.466	5.826
12/13/2004 8:00	30.814	42.711	36.889	46.551	30.844	5.161	24.47	5.833
12/13/2004 12:00	30.831	42.748	36.901	46.561	30.867	5.178	24.48	5.843
12/13/2004 16:00	30.814	42.739	36.897	46.595	30.869	5.19	24.474	5.837
12/13/2004 20:00	30.844	42.765	36.921	46.619	30.889	5.196	24.488	5.848
12/14/2004 0:00	30.853	42.771	36.921	46.593	30.904	5.19	24.492	5.85
12/14/2004 4:00	30.858	42.782	36.933	46.632	30.909	5.21	24.496	5.852
12/14/2004 8:00	30.854	42.763	36.931	46.635	30.904	5.197	24.497	5.848
12/14/2004 12:00	30.853	42.754	36.917	46.63	30.904	5.215	24.499	5.839
12/14/2004 16:00	30.843	42.688	36.893	46.572	30.894	5.186	24.492	5.818
12/14/2004 20:00	30.841	42.662	36.899	46.602	30.885	5.184	24.492	5.814
12/15/2004 0:00	30.836	42.643	36.895	46.584	30.879	5.177	24.492	5.807
12/15/2004 4:00	30.829	42.615	36.885	46.533	30.87	5.19	24.488	5.799

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
12/15/2004 8:00	30.813	42.6	36.881	46.514	30.849	5.182	24.486	5.792
12/15/2004 12:00	30.824	42.609	36.895	46.54	30.851	5.186	24.486	5.797
12/15/2004 16:00	30.819	42.594	36.887	46.519	30.864	5.173	24.482	5.79
12/15/2004 20:00	30.831	42.622	36.919	46.537	30.866	5.163	24.492	5.801
12/16/2004 0:00	30.834	42.632	36.921	46.538	30.875	5.192	24.496	5.801
12/16/2004 4:00	30.841	42.656	36.937	46.549	30.892	5.192	24.5	5.809
12/16/2004 8:00	30.844	42.675	36.949	46.558	30.898	5.184	24.505	5.814
12/16/2004 12:00	30.846	42.716	36.957	46.574	30.922	5.186	24.509	5.822
12/16/2004 16:00	30.861	42.707	36.949	46.549	30.935	5.191	24.511	5.814
12/16/2004 20:00	30.878	42.726	36.965	46.591	30.937	5.188	24.515	5.82
12/17/2004 0:00	30.873	42.728	36.963	46.6	30.939	5.191	24.519	5.818
12/17/2004 4:00	30.876	42.724	36.965	46.6	30.948	5.191	24.521	5.818
12/17/2004 8:00	30.873	42.713	36.965	46.6	30.946	5.198	24.523	5.816
12/17/2004 12:00	30.868	42.692	36.949	46.589	30.941	5.191	24.519	5.805
12/17/2004 16:00	30.856	42.622	36.925	46.526	30.924	5.189	24.513	5.784
12/17/2004 20:00	30.856	42.622	36.945	46.558	30.924	5.183	24.513	5.786
12/18/2004 0:00	30.856	42.626	36.959	46.554	30.926	5.196	24.517	5.792
12/18/2004 4:00	30.859	42.649	36.965	46.552	30.928	5.198	24.519	5.794
12/18/2004 8:00	30.868	42.666	36.975	46.528	30.941	5.21	24.523	5.799
12/18/2004 12:00	30.876	42.711	36.985	46.542	30.946	5.208	24.527	5.807
12/18/2004 16:00	30.886	42.718	36.991	46.584	30.954	5.234	24.531	5.807
12/18/2004 20:00	30.898	42.778	37.019	46.618	30.978	5.206	24.539	5.826
12/19/2004 0:00	30.913	42.827	37.036	46.646	30.995	5.222	24.546	5.841
12/19/2004 4:00	30.918	42.85	37.038	46.66	31.006	5.203	24.552	5.845
12/19/2004 8:00	30.923	42.876	37.042	46.671	31.018	5.22	24.556	5.847
12/19/2004 12:00	30.926	42.861	37.034	46.674	31.018	5.23	24.558	5.841
12/19/2004 16:00	30.916	42.78	36.993	46.621	30.999	5.222	24.55	5.811
12/19/2004 20:00	30.898	42.75	36.989	46.628	30.98	5.212	24.544	5.8
12/20/2004 0:00	30.863	42.728	36.969	46.567	30.952	5.201	24.542	5.786
12/20/2004 4:00	30.854	42.649	36.935	46.551	30.922	5.181	24.529	5.762
12/20/2004 8:00	30.814	42.592	36.925	46.515	30.898	5.185	24.521	5.754
12/20/2004 12:00	30.829	42.577	36.913	46.48	30.885	5.177	24.509	5.739
12/20/2004 16:00	30.839	42.607	36.957	46.452	30.894	5.188	24.515	5.762
12/20/2004 20:00	30.868	42.728	37.025	46.528	30.939	5.183	24.535	5.805
12/21/2004 0:00	30.878	42.786	37.019	46.519	30.956	5.193	24.542	5.807
12/21/2004 4:00	30.891	42.812	37.031	46.563	30.967	5.192	24.55	5.813
12/21/2004 8:00	30.911	42.865	37.06	46.556	30.987	5.203	24.558	5.828
12/21/2004 12:00	30.938	42.925	37.068	46.593	31.01	5.211	24.568	5.838
12/21/2004 16:00	30.928	42.91	37.054	46.6	31.01	5.193	24.568	5.828
12/21/2004 20:00	30.945	42.94	37.08	46.625	31.03	5.215	24.576	5.843
12/22/2004 0:00	30.955	42.976	37.092	46.655	31.042	5.215	24.581	5.851
12/22/2004 4:00	30.933	42.978	37.092	46.667	31.045	5.219	24.583	5.851
12/22/2004 8:00	30.965	42.991	37.102	46.685	31.053	5.217	24.591	5.856
12/22/2004 12:00	30.96	43.008	37.1	46.692	31.061	5.226	24.593	5.853
12/22/2004 16:00	30.975	42.953	37.082	46.692	31.047	5.217	24.593	5.836
12/22/2004 20:00	30.968	42.974	37.104	46.704	31.059	5.219	24.599	5.845
12/23/2004 0:00	30.973	42.98	37.11	46.734	31.062	5.215	24.6	5.847
12/23/2004 4:00	30.958	42.991	37.124	46.741	31.059	5.209	24.604	5.853
12/23/2004 8:00	30.988	43.019	37.136	46.725	31.073	5.239	24.611	5.86
12/23/2004 12:00	30.995	43.047	37.138	46.762	31.086	5.221	24.614	5.862
12/23/2004 16:00	30.993	43.017	37.124	46.727	31.077	5.221	24.616	5.851

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
12/23/2004 20:00	31.005	43.03	37.148	46.738	31.086	5.217	24.62	5.862
12/24/2004 0:00	30.998	43.021	37.138	46.764	31.086	5.217	24.62	5.855
12/24/2004 4:00	30.99	42.991	37.128	46.752	31.073	5.207	24.62	5.843
12/24/2004 8:00	30.98	42.951	37.108	46.725	31.06	5.194	24.616	5.828
12/24/2004 12:00	30.978	42.927	37.104	46.683	31.053	5.188	24.612	5.809
12/24/2004 16:00	30.953	42.846	37.068	46.676	31.023	5.202	24.599	5.791
12/24/2004 20:00	30.963	42.85	37.102	46.671	31.03	5.217	24.603	5.804
12/25/2004 0:00	30.963	42.852	37.098	46.634	31.032	5.192	24.605	5.804
12/25/2004 4:00	30.96	42.867	37.126	46.63	31.03	5.202	24.607	5.815
12/25/2004 8:00	30.963	42.886	37.13	46.66	31.034	5.211	24.611	5.813
12/25/2004 12:00	30.973	42.925	37.146	46.674	31.051	5.194	24.618	5.821
12/25/2004 16:00	30.973	42.921	37.142	46.664	31.053	5.196	24.618	5.819
12/25/2004 20:00	30.993	42.966	37.17	46.66	31.068	5.204	24.626	5.834
12/26/2004 0:00	31.01	43.023	37.188	46.688	31.09	5.21	24.634	5.847
12/26/2004 4:00	31	43.042	37.186	46.729	31.094	5.21	24.638	5.851
12/26/2004 8:00	31.02	43.068	37.204	46.75	31.103	5.2	24.643	5.859
12/26/2004 12:00	31.03	43.106	37.21	46.731	31.122	5.216	24.647	5.861
12/26/2004 16:00	31.038	43.068	37.19	46.762	31.114	5.225	24.647	5.851
12/26/2004 20:00	31.038	43.081	37.206	46.778	31.122	5.218	24.653	5.857
12/27/2004 0:00	31.02	43.092	37.212	46.782	31.129	5.216	24.649	5.859
12/27/2004 4:00	31.035	43.079	37.202	46.785	31.125	5.214	24.657	5.848
12/27/2004 8:00	31.033	43.053	37.208	46.746	31.114	5.225	24.657	5.846
12/27/2004 12:00	31.038	43.062	37.212	46.75	31.12	5.214	24.659	5.844
12/27/2004 16:00	31.03	43.032	37.202	46.766	31.111	5.218	24.655	5.836
12/27/2004 20:00	31.04	43.032	37.214	46.768	31.114	5.204	24.659	5.836
12/28/2004 0:00	31.043	43.04	37.224	46.746	31.122	5.205	24.663	5.84
12/28/2004 4:00	31.035	43.027	37.218	46.773	31.116	5.218	24.663	5.834
12/28/2004 8:00	31.025	43.012	37.216	46.759	31.107	5.205	24.661	5.825
12/28/2004 12:00	31.035	43.03	37.225	46.762	31.116	5.201	24.663	5.831
12/28/2004 16:00	31.033	43.008	37.22	46.738	31.111	5.191	24.663	5.825
12/28/2004 20:00	31.048	43.045	37.247	46.755	31.122	5.216	24.669	5.84
12/29/2004 0:00	31.053	43.079	37.255	46.769	31.135	5.205	24.673	5.848
12/29/2004 4:00	31.057	43.094	37.257	46.748	31.142	5.206	24.674	5.848
12/29/2004 8:00	31.055	43.092	37.259	46.782	31.137	5.199	24.676	5.848
12/29/2004 12:00	31.06	43.1	37.257	46.789	31.146	5.21	24.681	5.848
12/29/2004 16:00	31.05	43.047	37.241	46.773	31.133	5.197	24.677	5.829
12/29/2004 20:00	31.05	43.036	37.249	46.775	31.131	5.205	24.679	5.827
12/30/2004 0:00	31.043	43.015	37.241	46.752	31.127	5.212	24.677	5.818
12/30/2004 4:00	31.015	42.995	37.239	46.745	31.12	5.214	24.671	5.812
12/30/2004 8:00	31.023	42.966	37.231	46.731	31.105	5.195	24.669	5.805
12/30/2004 12:00	31.038	42.98	37.239	46.692	31.109	5.206	24.673	5.81
12/30/2004 16:00	31.043	42.995	37.261	46.72	31.118	5.21	24.675	5.814
12/30/2004 20:00	31.057	43.042	37.281	46.738	31.133	5.193	24.683	5.829
12/31/2004 0:00	31.067	43.072	37.283	46.752	31.144	5.199	24.686	5.835
12/31/2004 4:00	31.077	43.113	37.307	46.75	31.157	5.215	24.692	5.85
12/31/2004 8:00	31.075	43.149	37.315	46.762	31.17	5.222	24.696	5.856
12/31/2004 12:00	31.097	43.192	37.325	46.812	31.187	5.224	24.702	5.867
12/31/2004 16:00	31.092	43.171	37.307	46.81	31.189	5.215	24.702	5.856
12/31/2004 20:00	31.105	43.192	37.323	46.835	31.196	5.207	24.708	5.867
1/1/2005 0:00	31.107	43.194	37.325	46.842	31.2	5.23	24.71	5.865
1/1/2005 4:00	31.082	43.177	37.323	46.808	31.198	5.222	24.706	5.858

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/1/2005 8:00	31.097	43.153	37.319	46.833	31.191	5.215	24.71	5.85
1/1/2005 12:00	31.1	43.149	37.319	46.835	31.189	5.186	24.712	5.845
1/1/2005 16:00	31.092	43.104	37.313	46.824	31.181	5.182	24.708	5.833
1/1/2005 20:00	31.097	43.13	37.339	46.831	31.189	5.211	24.714	5.845
1/2/2005 0:00	31.115	43.196	37.375	46.859	31.209	5.222	24.719	5.871
1/2/2005 4:00	31.122	43.23	37.375	46.87	31.224	5.236	24.725	5.877
1/2/2005 8:00	31.125	43.243	37.369	46.882	31.23	5.236	24.729	5.877
1/2/2005 12:00	31.125	43.252	37.369	46.857	31.23	5.223	24.727	5.877
1/2/2005 16:00	31.13	43.22	37.371	46.891	31.23	5.235	24.731	5.871
1/2/2005 20:00	31.14	43.23	37.381	46.898	31.232	5.244	24.735	5.873
1/3/2005 0:00	31.134	43.228	37.379	46.902	31.235	5.227	24.735	5.871
1/3/2005 4:00	31.137	43.215	37.383	46.898	31.228	5.227	24.735	5.864
1/3/2005 8:00	31.122	43.203	37.397	46.9	31.183	5.211	24.733	5.864
1/3/2005 12:00	31.108	43.207	37.399	46.877	31.181	5.223	24.692	5.868
1/3/2005 16:00	31.095	43.185	37.401	46.87	31.174	5.231	24.69	5.868
1/3/2005 20:00	31.11	43.211	37.415	46.912	31.181	5.219	24.7	5.879
1/4/2005 0:00	31.112	43.211	37.417	46.891	31.183	5.209	24.706	5.881
1/4/2005 4:00	31.112	43.207	37.415	46.893	31.183	5.233	24.712	5.879
1/4/2005 8:00	31.11	43.19	37.415	46.909	31.181	5.215	24.716	5.875
1/4/2005 12:00	31.115	43.2	37.42	46.921	31.185	5.215	24.726	5.873
1/4/2005 16:00	31.103	43.141	37.405	46.879	31.172	5.225	24.723	5.86
1/4/2005 20:00	31.103	43.168	37.426	46.919	31.174	5.225	24.729	5.866
1/5/2005 0:00	31.11	43.177	37.438	46.893	31.176	5.237	24.735	5.868
1/5/2005 4:00	31.1	43.155	37.424	46.902	31.161	5.223	24.729	5.851
1/5/2005 8:00	31.105	43.16	37.434	46.909	31.17	5.208	24.735	5.859
1/5/2005 12:00	31.1	43.166	37.426	46.912	31.179	5.198	24.739	5.857
1/5/2005 16:00	31.095	43.132	37.417	46.891	31.166	5.196	24.735	5.84
1/5/2005 20:00	31.108	43.147	37.44	46.875	31.174	5.212	24.741	5.851
1/6/2005 0:00	31.108	43.16	37.45	46.884	31.179	5.186	24.743	5.853
1/6/2005 4:00	31.11	43.16	37.454	46.884	31.179	5.229	24.745	5.853
1/6/2005 8:00	31.117	43.171	37.456	46.912	31.185	5.219	24.747	5.853
1/6/2005 12:00	31.122	43.183	37.462	46.893	31.194	5.221	24.749	5.857
1/6/2005 16:00	31.127	43.155	37.452	46.905	31.187	5.214	24.749	5.847
1/6/2005 20:00	31.13	43.156	37.46	46.914	31.194	5.225	24.751	5.844
1/7/2005 0:00	31.135	43.162	37.474	46.886	31.198	5.225	24.753	5.849
1/7/2005 4:00	31.125	43.166	37.47	46.916	31.194	5.214	24.753	5.846
1/7/2005 8:00	31.125	43.17	37.478	46.891	31.201	5.221	24.755	5.849
1/7/2005 12:00	31.14	43.2	37.49	46.896	31.213	5.237	24.758	5.857
1/7/2005 16:00	31.137	43.198	37.494	46.898	31.216	5.22	24.76	5.857
1/7/2005 20:00	31.157	43.239	37.514	46.916	31.233	5.251	24.764	5.872
1/8/2005 0:00	31.165	43.271	37.524	46.963	31.25	5.243	24.768	5.882
1/8/2005 4:00	31.155	43.262	37.518	46.963	31.246	5.245	24.77	5.878
1/8/2005 8:00	31.16	43.267	37.516	46.963	31.248	5.237	24.77	5.874
1/8/2005 12:00	31.167	43.273	37.514	46.97	31.259	5.247	24.774	5.876
1/8/2005 16:00	31.15	43.217	37.5	46.958	31.241	5.247	24.77	5.857
1/8/2005 20:00	31.167	43.226	37.524	46.942	31.25	5.232	24.774	5.865
1/9/2005 0:00	31.162	43.219	37.514	46.967	31.25	5.239	24.776	5.856
1/9/2005 4:00	31.152	43.186	37.512	46.953	31.235	5.224	24.774	5.845
1/9/2005 8:00	31.142	43.164	37.504	46.933	31.224	5.239	24.771	5.837
1/9/2005 12:00	31.155	43.194	37.536	46.917	31.241	5.218	24.776	5.854
1/9/2005 16:00	31.175	43.226	37.562	46.933	31.248	5.237	24.782	5.871

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/9/2005 20:00	31.172	43.288	37.57	46.993	31.267	5.23	24.757	5.886
1/10/2005 0:00	31.177	43.311	37.572	46.97	31.285	5.233	24.741	5.89
1/10/2005 4:00	31.17	43.298	37.56	47	31.274	5.23	24.741	5.877
1/10/2005 8:00	31.157	43.243	37.542	46.956	31.252	5.274	24.74	5.86
1/10/2005 12:00	31.157	43.247	37.55	46.956	31.257	5.237	24.745	5.86
1/10/2005 16:00	31.14	43.194	37.542	46.939	31.239	5.226	24.745	5.845
1/10/2005 20:00	31.157	43.211	37.568	46.944	31.246	5.222	24.755	5.856
1/11/2005 0:00	31.16	43.232	37.566	46.981	31.259	5.234	24.763	5.858
1/11/2005 4:00	31.155	43.224	37.566	46.944	31.254	5.218	24.767	5.856
1/11/2005 8:00	31.152	43.23	37.576	46.976	31.253	5.199	24.774	5.856
1/11/2005 12:00	31.16	43.224	37.564	46.974	31.263	5.183	24.774	5.847
1/11/2005 16:00	31.14	43.181	37.55	46.958	31.25	5.189	24.772	5.832
1/11/2005 20:00	31.147	43.177	37.57	46.951	31.244	5.22	24.774	5.836
1/12/2005 0:00	31.142	43.162	37.556	46.935	31.246	5.199	24.774	5.828
1/12/2005 4:00	31.137	43.142	37.564	46.923	31.237	5.207	24.771	5.826
1/12/2005 8:00	31.122	43.138	37.558	46.879	31.226	5.203	24.771	5.817
1/12/2005 12:00	31.135	43.155	37.566	46.912	31.235	5.215	24.774	5.824
1/12/2005 16:00	31.145	43.181	37.594	46.923	31.248	5.203	24.78	5.838
1/12/2005 20:00	31.167	43.234	37.604	46.944	31.263	5.209	24.784	5.853
1/13/2005 0:00	31.175	43.271	37.612	46.944	31.282	5.22	24.788	5.86
1/13/2005 4:00	31.185	43.298	37.627	46.988	31.297	5.218	24.792	5.87
1/13/2005 8:00	31.195	43.347	37.649	46.99	31.31	5.255	24.8	5.891
1/13/2005 12:00	31.21	43.401	37.657	47.034	31.334	5.257	24.803	5.9
1/13/2005 16:00	31.21	43.401	37.651	47.016	31.341	5.263	24.807	5.906
1/13/2005 20:00	31.227	43.435	37.665	47.057	31.351	5.255	24.813	5.919
1/14/2005 0:00	31.237	43.465	37.671	47.048	31.371	5.257	24.817	5.929
1/14/2005 4:00	31.239	43.461	37.673	47.09	31.375	5.25	24.819	5.929
1/14/2005 8:00	31.244	43.446	37.667	47.095	31.371	5.236	24.821	5.923
1/14/2005 12:00	31.247	43.45	37.671	47.113	31.375	5.262	24.823	5.916
1/14/2005 16:00	31.249	43.412	37.667	47.12	31.368	5.252	24.825	5.909
1/14/2005 20:00	31.252	43.431	37.687	47.113	31.373	5.25	24.829	5.926
1/15/2005 0:00	31.254	43.448	37.691	47.145	31.381	5.281	24.831	5.928
1/15/2005 4:00	31.257	43.446	37.689	47.15	31.388	5.277	24.833	5.928
1/15/2005 8:00	31.254	43.437	37.689	47.159	31.384	5.281	24.837	5.924
1/15/2005 12:00	31.264	43.441	37.693	47.187	31.384	5.279	24.835	5.911
1/15/2005 16:00	31.264	43.401	37.681	47.159	31.375	5.269	24.835	5.903
1/15/2005 20:00	31.252	43.407	37.705	47.222	31.38	5.275	24.833	5.924
1/16/2005 0:00	31.264	43.42	37.713	47.134	31.384	5.267	24.841	5.924
1/16/2005 4:00	31.264	43.424	37.713	47.113	31.388	5.25	24.843	5.921
1/16/2005 8:00	31.264	43.422	37.713	47.138	31.386	5.287	24.843	5.92
1/16/2005 12:00	31.277	43.422	37.715	47.127	31.388	5.273	24.844	5.901
1/16/2005 16:00	31.259	43.386	37.703	47.108	31.379	5.283	24.844	5.892
1/16/2005 20:00	31.267	43.39	37.719	47.111	31.381	5.275	24.848	5.911
1/17/2005 0:00	31.264	43.397	37.727	47.108	31.381	5.265	24.848	5.913
1/17/2005 4:00	31.262	43.399	37.719	47.104	31.382	5.289	24.85	5.898
1/17/2005 8:00	31.264	43.406	37.733	47.078	31.388	5.279	24.852	5.902
1/17/2005 12:00	31.267	43.422	37.735	47.108	31.393	5.285	24.854	5.902
1/17/2005 16:00	31.267	43.397	37.727	47.102	31.388	5.265	24.852	5.896
1/17/2005 20:00	31.277	43.403	37.741	47.076	31.393	5.279	24.858	5.908
1/18/2005 0:00	31.267	43.407	37.733	47.106	31.388	5.269	24.858	5.904
1/18/2005 4:00	31.264	43.388	37.733	47.097	31.382	5.283	24.858	5.891

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/18/2005 8:00	31.257	43.358	37.733	47.064	31.371	5.266	24.856	5.883
1/18/2005 12:00	31.247	43.324	37.709	47.106	31.354	5.254	24.852	5.853
1/18/2005 16:00	31.239	43.256	37.703	47.106	31.332	5.248	24.844	5.842
1/18/2005 20:00	31.237	43.266	37.737	47.122	31.33	5.248	24.85	5.857
1/19/2005 0:00	31.234	43.288	37.737	47.099	31.33	5.239	24.854	5.865
1/19/2005 4:00	31.239	43.32	37.755	47.145	31.343	5.227	24.862	5.876
1/19/2005 8:00	31.252	43.352	37.757	47.15	31.352	5.229	24.864	5.88
1/19/2005 12:00	31.262	43.399	37.771	47.147	31.367	5.215	24.868	5.891
1/19/2005 16:00	31.262	43.371	37.749	47.145	31.358	5.237	24.868	5.878
1/19/2005 20:00	31.259	43.343	37.743	47.101	31.313	5.206	24.862	5.867
1/20/2005 0:00	31.239	43.305	37.735	47.113	31.285	5.206	24.856	5.857
1/20/2005 4:00	31.232	43.266	37.735	47.108	31.264	5.204	24.854	5.848
1/20/2005 8:00	31.227	43.262	37.761	47.085	31.261	5.217	24.858	5.854
1/20/2005 12:00	31.234	43.286	37.767	47.092	31.262	5.221	24.864	5.858
1/20/2005 16:00	31.202	43.26	37.761	47.085	31.408	4.526	24.765	5.551
1/20/2005 20:00	31.21	43.256	37.733	47.085	31.345	4.674	24.719	5.396
1/21/2005 0:00	31.188	43.256	37.671	47.078	31.352	4.909	24.748	5.472
1/21/2005 4:00	31.185	43.254	37.627	47.048	31.313	5.019	24.765	5.527
1/21/2005 8:00	31.183	43.243	37.633	47.05	31.289	5.078	24.777	5.57
1/21/2005 12:00	31.172	43.211	37.6	47.034	31.294	5.124	24.781	5.58
1/21/2005 16:00	31.158	43.155	37.592	47.064	31.289	5.142	24.785	5.596
1/21/2005 20:00	31.165	43.172	37.631	47.053	31.272	5.175	24.793	5.631
1/22/2005 0:00	31.155	43.202	37.665	47.087	31.272	5.186	24.8	5.664
1/22/2005 4:00	31.19	43.286	37.711	47.102	31.188	5.192	24.82	5.7
1/22/2005 8:00	31.21	43.35	37.727	47.102	31.048	5.198	24.833	5.734
1/22/2005 12:00	31.227	43.392	37.725	47.102	30.962	5.204	24.847	5.749
1/22/2005 16:00	31.232	43.39	37.717	47.071	30.934	5.202	24.853	5.764
1/22/2005 20:00	31.242	43.397	37.717	47.069	30.893	5.196	24.858	5.774
1/23/2005 0:00	31.247	43.39	37.721	47.069	30.87	5.202	24.864	5.781
1/23/2005 4:00	31.235	43.35	37.701	47.06	30.943	5.202	24.864	5.772
1/23/2005 8:00	31.225	43.315	37.699	47.085	31.027	5.208	24.864	5.776
1/23/2005 12:00	31.23	43.292	37.701	47.055	31.111	5.21	24.864	5.765
1/23/2005 16:00	31.188	43.219	37.669	47.074	31.335	5.206	24.856	5.753
1/23/2005 20:00	31.21	43.217	37.699	47.085	31.361	5.194	24.86	5.77
1/24/2005 0:00	31.205	43.204	37.683	47.043	31.449	5.179	24.86	5.761
1/24/2005 4:00	31.198	43.185	37.689	47.046	31.52	5.198	24.86	5.761
1/24/2005 8:00	31.198	43.194	37.705	47.08	31.527	5.193	24.862	5.774
1/24/2005 12:00	31.208	43.221	37.719	47.085	31.522	5.185	24.868	5.775
1/24/2005 16:00	31.2	43.204	37.711	47.083	31.6	5.2	24.864	5.774
1/24/2005 20:00	31.215	43.226	37.733	47.087	31.537	5.191	24.87	5.786
1/25/2005 0:00	31.205	43.224	37.723	47.08	31.561	5.173	24.872	5.78
1/25/2005 4:00	31.203	43.2	37.721	47.087	31.619	5.169	24.87	5.772
1/25/2005 8:00	31.2	43.192	37.725	47.09	31.66	5.191	24.87	5.774
1/25/2005 12:00	31.208	43.194	37.727	47.092	31.712	5.189	24.87	5.781
1/25/2005 16:00	31.203	43.179	37.731	47.067	31.768	5.185	24.87	5.775
1/25/2005 20:00	31.21	43.217	37.755	47.099	31.686	5.181	24.874	5.768
1/26/2005 0:00	31.225	43.277	37.751	47.11	31.546	5.189	24.88	5.785
1/26/2005 4:00	31.24	43.313	37.745	47.113	31.432	5.189	24.884	5.798
1/26/2005 8:00	31.245	43.339	37.745	47.087	31.346	5.196	24.886	5.807
1/26/2005 12:00	31.257	43.388	37.761	47.138	31.225	5.206	24.892	5.826
1/26/2005 16:00	31.27	43.38	37.743	47.122	31.221	5.206	24.894	5.824

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/26/2005 20:00	31.257	43.397	37.753	47.127	31.154	5.224	24.886	5.832
1/27/2005 0:00	31.285	43.414	37.757	47.136	31.111	5.202	24.899	5.84
1/27/2005 4:00	31.282	43.409	37.751	47.124	31.161	5.212	24.901	5.841
1/27/2005 8:00	31.285	43.409	37.753	47.122	31.088	5.202	24.903	5.844
1/27/2005 12:00	31.292	43.422	37.761	47.127	31.075	5.208	24.905	5.851
1/27/2005 16:00	31.287	43.392	37.741	47.106	31.148	5.196	24.905	5.84
1/27/2005 20:00	31.287	43.394	37.751	47.113	31.139	5.2	24.909	5.846
1/28/2005 0:00	31.287	43.39	37.747	47.106	31.176	5.177	24.909	5.844
1/28/2005 4:00	31.287	43.382	37.749	47.106	31.217	5.177	24.909	5.844
1/28/2005 8:00	31.282	43.377	37.751	47.074	31.249	5.197	24.911	5.844
1/28/2005 12:00	31.287	43.375	37.747	47.101	31.297	5.185	24.913	5.843
1/28/2005 16:00	31.277	43.337	37.729	47.062	31.404	5.169	24.909	5.828
1/28/2005 20:00	31.285	43.352	37.747	47.092	31.385	5.177	24.913	5.838
1/29/2005 0:00	31.287	43.365	37.751	47.074	31.383	5.17	24.915	5.842
1/29/2005 4:00	31.29	43.362	37.747	47.067	31.411	5.15	24.915	5.838
1/29/2005 8:00	31.29	43.367	37.755	47.071	31.413	5.17	24.917	5.842
1/29/2005 12:00	31.3	43.39	37.759	47.041	31.393	5.152	24.921	5.848
1/29/2005 16:00	31.295	43.39	37.755	47.12	31.417	5.131	24.921	5.848
1/29/2005 20:00	31.302	43.407	37.767	47.025	31.376	5.135	24.925	5.853
1/30/2005 0:00	31.305	43.418	37.765	46.983	31.359	5.144	24.925	5.853
1/30/2005 4:00	31.292	43.422	37.759	47.009	31.365	5.125	24.923	5.851
1/30/2005 8:00	31.31	43.422	37.763	47.002	31.363	5.131	24.929	5.851
1/30/2005 12:00	31.325	43.437	37.765	46.949	31.344	5.123	24.931	5.856
1/30/2005 16:00	31.315	43.412	37.753	47.085	31.43	5.125	24.93	5.843
1/30/2005 20:00	31.322	43.429	37.769	47.034	31.398	5.123	24.931	5.847
1/31/2005 0:00	31.322	43.437	37.769	46.988	31.376	5.119	24.935	5.849
1/31/2005 4:00	31.327	43.45	37.775	46.958	31.359	5.113	24.937	5.856
1/31/2005 8:00	31.332	43.459	37.781	46.928	31.329	5.115	24.939	5.86
1/31/2005 12:00	31.335	43.476	37.785	46.916	31.288	5.131	24.941	5.866
1/31/2005 16:00	31.335	43.463	37.773	46.956	31.333	5.129	24.942	5.858
1/31/2005 20:00	31.34	43.478	37.787	46.891	31.277	5.119	24.944	5.867
2/1/2005 0:00	31.344	43.482	37.785	46.898	31.26	5.121	24.946	5.865
2/1/2005 4:00	31.347	43.482	37.785	46.91	31.262	5.104	24.948	5.865
2/1/2005 8:00	31.344	43.484	37.789	46.882	31.264	5.104	24.95	5.869
2/1/2005 12:00	31.352	43.495	37.789	46.9	31.253	5.108	24.952	5.869
2/1/2005 16:00	31.354	43.482	37.787	46.984	31.293	5.119	24.952	5.867
2/1/2005 20:00	31.357	43.497	37.801	46.909	31.265	5.111	24.956	5.875
2/2/2005 0:00	31.354	43.491	37.791	46.94	31.279	5.09	24.956	5.866
2/2/2005 4:00	31.357	43.486	37.793	46.907	31.291	5.102	24.958	5.868
2/2/2005 8:00	31.357	43.491	37.798	46.939	31.303	5.094	24.96	5.87
2/2/2005 12:00	31.362	43.497	37.801	46.928	31.323	5.119	24.962	5.874
2/2/2005 16:00	31.354	43.465	37.788	47.113	31.418	5.102	24.96	5.859
2/2/2005 20:00	31.364	43.491	37.812	47.002	31.364	5.1	24.964	5.872
2/3/2005 0:00	31.365	43.497	37.812	46.961	31.351	5.1	24.966	5.869
2/3/2005 4:00	31.367	43.501	37.81	46.976	31.349	5.094	24.968	5.87
2/3/2005 8:00	31.369	43.508	37.82	46.97	31.344	5.094	24.972	5.874
2/3/2005 12:00	31.344	43.518	37.818	46.998	31.344	5.08	24.966	5.876
2/3/2005 16:00	31.359	43.497	37.81	47.134	31.424	5.076	24.972	5.865
2/3/2005 20:00	31.357	43.512	37.828	47.076	31.398	5.08	24.964	5.873
2/4/2005 0:00	31.38	43.516	37.824	47.004	31.374	5.104	24.975	5.873
2/4/2005 4:00	31.372	43.497	37.822	46.995	31.402	5.094	24.977	5.867

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
2/4/2005 8:00	31.375	43.508	37.834	46.977	31.398	5.096	24.979	5.873
2/4/2005 12:00	31.36	43.508	37.828	47.041	31.433	5.088	24.972	5.869
2/4/2005 16:00	31.38	43.476	37.82	47.219	31.521	5.086	24.978	5.859
2/4/2005 20:00	31.38	43.482	37.838	47.208	31.508	5.082	24.981	5.865
2/5/2005 0:00	31.382	43.482	37.838	47.166	31.508	5.061	24.982	5.862
2/5/2005 4:00	31.38	43.478	37.834	47.143	31.521	5.071	24.984	5.86
2/5/2005 8:00	31.38	43.474	37.834	47.184	31.538	5.069	24.984	5.858
2/5/2005 12:00	31.377	43.459	37.828	47.281	31.592	5.053	24.984	5.853
2/5/2005 16:00	31.345	43.424	37.83	47.062	31.566	5.152	24.98	5.844
2/5/2005 20:00	31.375	43.437	37.844	47.092	31.56	5.15	24.985	5.853
2/6/2005 0:00	31.38	43.45	37.846	47.064	31.56	5.135	24.987	5.856
2/6/2005 4:00	31.382	43.467	37.87	47.106	31.534	5.133	24.991	5.865
2/6/2005 8:00	31.36	43.456	37.858	47.074	31.448	5.125	24.923	5.851
2/6/2005 12:00	31.313	43.397	37.801	47.108	31.224	5.108	24.678	5.839
2/6/2005 16:00	31.238	43.283	37.741	47.099	31.086	5.091	24.401	5.819
2/6/2005 20:00	31.186	43.241	37.725	47.078	31.036	5.09	24.412	5.83
2/7/2005 0:00	31.144	43.202	37.695	47.115	30.92	5.073	24.447	5.832
2/7/2005 4:00	31.072	43.138	37.675	47.095	30.825	5.067	24.412	5.827
2/7/2005 8:00	31.044	43.089	37.665	47.104	30.744	5.063	24.43	5.83
2/7/2005 12:00	31.035	43.066	37.673	47.159	30.666	5.071	24.457	5.836
2/7/2005 16:00	31.01	42.997	37.665	47.104	30.675	5.055	24.476	5.821
2/7/2005 20:00	31.01	42.972	37.679	47.143	30.608	5.048	24.49	5.822
2/8/2005 0:00	30.997	42.94	37.687	47.147	30.572	5.065	24.501	5.815
2/8/2005 4:00	30.982	42.901	37.689	47.141	30.541	5.036	24.517	5.807
2/8/2005 8:00	30.975	42.865	37.705	47.106	30.528	5.026	24.53	5.805
2/8/2005 12:00	30.97	42.846	37.697	47.131	30.544	5.032	24.544	5.793
2/8/2005 16:00	30.945	42.784	37.677	47.11	30.612	5.024	24.55	5.774
2/8/2005 20:00	30.94	42.769	37.687	47.117	30.591	5.007	24.562	5.772
2/9/2005 0:00	30.943	42.762	37.683	47.083	30.602	5.016	24.57	5.767
2/9/2005 4:00	30.938	42.743	37.675	47.11	30.613	5.016	24.577	5.759
2/9/2005 8:00	30.943	42.732	37.685	47.115	30.587	5.011	24.587	5.759
2/9/2005 12:00	30.953	42.737	37.687	47.127	30.557	5.005	24.597	5.756
2/9/2005 16:00	30.948	42.694	37.675	47.083	30.608	5.017	24.6	5.744
2/9/2005 20:00	30.956	42.69	37.683	47.087	30.587	4.999	24.602	5.74
2/10/2005 0:00	30.953	42.683	37.679	47.12	30.595	4.995	24.602	5.736
2/10/2005 4:00	30.953	42.673	37.687	47.122	30.58	4.987	24.608	5.735
2/10/2005 8:00	30.958	42.69	37.699	47.117	30.524	4.991	24.62	5.741
2/10/2005 12:00	30.97	42.698	37.693	47.129	30.514	4.98	24.628	5.739
2/10/2005 16:00	30.958	42.658	37.673	47.09	30.594	4.97	24.622	5.719
2/10/2005 20:00	30.933	42.63	37.681	47.115	30.611	4.987	24.606	5.716
2/11/2005 0:00	30.923	42.621	37.687	47.087	30.615	4.995	24.602	5.716
2/11/2005 4:00	30.918	42.626	37.691	47.124	30.6	5.03	24.608	5.712
2/11/2005 8:00	30.913	42.621	37.695	47.099	30.579	5.028	24.614	5.712
2/11/2005 12:00	30.918	42.626	37.693	47.129	30.585	4.995	24.62	5.71
2/11/2005 16:00	30.893	42.568	37.657	47.099	30.688	5.03	24.604	5.687
2/11/2005 20:00	30.854	42.521	37.675	47.104	30.624	5.011	24.463	5.685
2/12/2005 0:00	30.829	42.491	37.665	47.064	30.648	5.017	24.467	5.673
2/12/2005 4:00	30.812	42.455	37.667	47.083	30.637	5.003	24.482	5.672
2/12/2005 8:00	30.789	42.425	37.671	47.094	30.589	4.99	24.496	5.667
2/12/2005 12:00	30.784	42.408	37.675	47.095	30.566	4.984	24.506	5.666
2/12/2005 16:00	30.732	42.331	37.637	47.055	30.432	4.98	24.478	5.64

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
2/12/2005 20:00	30.638	42.198	37.578	47.057	29.993	4.846	24.122	5.612
2/13/2005 0:00	30.509	42.036	37.504	47.083	29.686	4.704	23.865	5.561
2/13/2005 4:00	30.342	41.788	37.446	47.08	29.211	4.199	23.596	5.279
2/13/2005 8:00	30.151	41.585	37.419	47.083	29.06	3.878	23.396	5.219
2/13/2005 12:00	30.037	41.464	37.395	47.058	29.032	4.01	23.396	5.223
2/13/2005 16:00	29.956	41.374	37.377	47.067	28.987	4.214	23.451	5.238
2/13/2005 20:00	29.894	41.344	37.291	47.106	28.953	4.349	23.491	5.26
2/14/2005 0:00	29.845	41.304	37.09	47.106	28.924	4.471	23.532	5.266
2/14/2005 4:00	29.8	41.263	36.979	47.085	28.905	4.573	23.567	5.266
2/14/2005 8:00	29.761	41.216	36.887	47.09	28.886	4.624	23.6	5.26
2/14/2005 12:00	29.746	41.186	36.838	47.143	28.888	4.685	23.635	5.262
2/14/2005 16:00	29.712	41.109	36.75	47.115	28.903	4.706	23.65	5.242
2/14/2005 20:00	29.697	41.064	36.718	47.09	28.858	4.737	23.669	5.238
2/15/2005 0:00	29.692	41.037	36.678	47.127	28.86	4.773	23.691	5.232
2/15/2005 4:00	29.692	41.035	36.668	47.15	28.884	4.799	23.714	5.229
2/15/2005 8:00	29.689	41.026	36.652	47.127	28.902	4.805	23.733	5.225
2/15/2005 12:00	29.709	41.058	36.665	47.124	28.945	4.824	23.76	5.229
2/15/2005 16:00	29.732	41.049	36.66	47.155	28.975	4.811	23.778	5.222
2/15/2005 20:00	29.779	41.105	36.714	47.157	29.026	4.863	23.809	5.231
2/16/2005 0:00	29.799	41.118	36.704	47.127	29.065	4.877	23.829	5.225
2/16/2005 4:00	29.809	41.101	36.702	47.125	29.091	4.88	23.842	5.214
2/16/2005 8:00	29.818	41.092	36.732	47.152	29.111	4.873	23.858	5.21
2/16/2005 12:00	29.839	41.103	36.762	47.147	29.139	4.888	23.869	5.205
2/16/2005 16:00	29.833	41.041	36.732	47.097	29.145	4.896	23.869	5.188
2/16/2005 20:00	29.823	41.035	36.752	47.104	29.143	4.906	23.883	5.188
2/17/2005 0:00	29.848	41.052	36.764	47.108	29.167	4.909	23.894	5.188
2/17/2005 4:00	29.853	41.052	36.76	47.106	29.184	4.907	23.902	5.184
2/17/2005 8:00	29.861	41.032	36.754	47.104	29.195	4.904	23.908	5.179
2/17/2005 12:00	29.871	41.02	36.74	47.099	29.21	4.907	23.914	5.173
2/17/2005 16:00	29.871	40.975	36.718	47.09	29.189	4.933	23.912	5.166
2/17/2005 20:00	29.868	40.985	36.748	47.069	29.212	4.902	23.921	5.17
2/18/2005 0:00	29.89	41.005	36.746	47.099	29.234	4.911	23.931	5.172
2/18/2005 4:00	29.885	41.019	36.762	47.108	29.253	4.913	23.939	5.178
2/18/2005 8:00	29.942	41.077	36.772	47.12	29.303	4.911	23.96	5.188
2/18/2005 12:00	29.962	41.092	36.756	47.125	29.337	4.923	23.97	5.186
2/18/2005 16:00	29.953	41.037	36.714	47.069	29.333	4.921	23.966	5.169
2/18/2005 20:00	29.953	41.017	36.722	47.076	29.338	4.929	23.972	5.172
2/19/2005 0:00	29.955	41.009	36.716	47.097	29.344	4.939	23.975	5.166
2/19/2005 4:00	29.948	40.99	36.712	47.097	29.338	4.927	23.978	5.165
2/19/2005 8:00	29.93	40.958	36.697	47.085	29.335	4.923	23.977	5.159
2/19/2005 12:00	29.952	40.947	36.698	47.083	29.335	4.944	23.981	5.157
2/19/2005 16:00	29.925	40.887	36.663	47.043	29.31	4.88	23.972	5.144
2/19/2005 20:00	29.94	40.881	36.679	47.083	29.305	4.861	23.976	5.148
2/20/2005 0:00	29.945	40.872	36.677	47.048	29.305	4.89	23.978	5.146
2/20/2005 4:00	29.91	40.817	36.648	47.071	29.275	4.896	23.972	5.133
2/20/2005 8:00	29.92	40.795	36.665	47.046	29.256	4.923	23.972	5.137
2/20/2005 12:00	29.955	40.861	36.71	47.055	29.292	4.913	23.989	5.156
2/20/2005 16:00	29.979	40.917	36.734	47.083	29.329	4.941	24.003	5.164
2/20/2005 20:00	30.009	40.983	36.772	47.081	29.374	4.941	24.018	5.181
2/21/2005 0:00	30.027	41.028	36.768	47.087	29.417	4.941	24.03	5.183
2/21/2005 4:00	30.044	41.037	36.768	47.092	29.432	4.944	24.038	5.184

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
2/21/2005 8:00	30.061	41.064	36.786	47.09	29.458	4.952	24.047	5.191
2/21/2005 12:00	30.076	41.075	36.79	47.064	29.484	4.935	24.055	5.195
2/21/2005 16:00	30.081	41.06	36.77	47.088	29.488	4.942	24.057	5.185
2/21/2005 20:00	30.099	41.075	36.802	47.095	29.506	4.95	24.067	5.195
2/22/2005 0:00	30.123	41.122	36.816	47.078	29.54	4.958	24.078	5.202
2/22/2005 4:00	30.133	41.137	36.816	47.085	29.56	4.956	24.086	5.204
2/22/2005 8:00	30.163	41.19	36.838	47.081	29.596	4.942	24.1	5.215
2/22/2005 12:00	30.188	41.231	36.856	47.069	29.635	4.95	24.111	5.223
2/22/2005 16:00	30.18	41.199	36.824	47.092	29.639	4.946	24.113	5.214
2/22/2005 20:00	30.171	41.21	36.844	47.09	29.65	4.927	24.115	5.222
2/23/2005 0:00	30.203	41.214	36.838	47.09	29.67	4.966	24.127	5.22
2/23/2005 4:00	30.205	41.212	36.83	47.062	29.678	4.977	24.131	5.218
2/23/2005 8:00	30.21	41.201	36.838	47.09	29.683	4.96	24.137	5.218
2/23/2005 12:00	30.212	41.197	36.826	47.062	29.695	4.974	24.138	5.216
2/23/2005 16:00	30.215	41.163	36.814	47.085	29.693	4.968	24.137	5.209
2/23/2005 20:00	30.223	41.161	36.83	47.09	29.693	4.948	24.142	5.215
2/24/2005 0:00	30.227	41.175	36.832	47.053	29.711	4.944	24.149	5.217
2/24/2005 4:00	30.223	41.158	36.822	47.053	29.711	4.956	24.15	5.213
2/24/2005 8:00	30.23	41.152	36.83	47.09	29.713	4.964	24.154	5.217
2/24/2005 12:00	30.25	41.214	36.86	47.065	29.745	4.972	24.166	5.231
2/24/2005 16:00	30.25	41.21	36.83	47.055	29.76	4.962	24.17	5.221
2/24/2005 20:00	30.262	41.212	36.842	47.085	29.773	4.937	24.173	5.227
2/25/2005 0:00	30.272	41.218	36.844	47.048	29.784	4.919	24.177	5.227
2/25/2005 4:00	30.267	41.195	36.828	47.041	29.779	4.919	24.177	5.222
2/25/2005 8:00	30.264	41.175	36.836	47.044	29.773	4.913	24.179	5.222
2/25/2005 12:00	30.287	41.222	36.862	47.05	29.805	4.919	24.189	5.232
2/25/2005 16:00	30.289	41.218	36.848	47.071	29.917	4.917	24.191	5.226
2/25/2005 20:00	30.299	41.243	36.876	47.053	29.829	4.919	24.201	5.235
2/26/2005 0:00	30.322	41.284	36.881	47.078	29.887	4.929	24.207	5.243
2/26/2005 4:00	30.329	41.301	36.884	47.05	29.924	4.935	24.214	5.245
2/26/2005 8:00	30.339	41.316	36.886	47.05	29.948	4.939	24.22	5.245
2/26/2005 12:00	30.356	41.322	36.884	47.078	29.974	4.95	24.224	5.245
2/26/2005 16:00	30.349	41.284	36.866	47.048	29.971	4.94	24.222	5.234
2/26/2005 20:00	30.356	41.278	36.882	47.08	29.95	4.952	24.226	5.238
2/27/2005 0:00	30.367	41.286	36.886	47.051	29.952	4.983	24.23	5.238
2/27/2005 4:00	30.371	41.28	36.882	47.081	29.952	5	24.232	5.236
2/27/2005 8:00	30.372	41.276	36.888	47.083	29.952	5.014	24.236	5.238
2/27/2005 12:00	30.391	41.297	36.903	47.088	29.967	5.033	24.243	5.245
2/27/2005 16:00	30.386	41.295	36.897	47.083	29.971	5.026	24.245	5.24
2/27/2005 20:00	30.401	41.333	36.935	47.095	29.989	5.022	24.255	5.255
2/28/2005 0:00	30.418	41.378	36.935	47.062	30.019	5.039	24.265	5.259
2/28/2005 4:00	30.421	41.372	36.925	47.071	30.025	5.055	24.269	5.257
2/28/2005 8:00	30.429	41.389	36.949	47.083	30.036	5.053	24.274	5.265
2/28/2005 12:00	30.441	41.417	36.961	47.085	30.062	5.057	24.282	5.272
2/28/2005 16:00	30.428	41.427	36.959	47.083	30.081	5.06	24.284	5.272
2/28/2005 20:00	30.463	41.459	36.985	47.087	30.09	5.043	24.296	5.278
3/1/2005 0:00	30.475	41.477	36.983	47.048	30.105	5.027	24.302	5.28
3/1/2005 4:00	30.483	41.496	36.981	47.085	30.124	5.033	24.307	5.279
3/1/2005 8:00	30.495	41.521	37.003	47.097	30.139	5.051	24.317	5.286
3/1/2005 12:00	30.51	41.556	37.009	47.094	30.166	5.062	24.325	5.292
3/1/2005 16:00	30.505	41.517	36.979	47.044	30.163	5.035	24.323	5.279

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/1/2005 20:00	30.503	41.521	37.007	47.055	30.168	5.037	24.329	5.288
3/2/2005 0:00	30.51	41.528	37.003	47.046	30.172	5.041	24.332	5.286
3/2/2005 4:00	30.513	41.528	37.001	47.076	30.179	5.033	24.338	5.285
3/2/2005 8:00	30.5	41.513	37.005	47.074	30.174	5.022	24.34	5.285
3/2/2005 12:00	30.52	41.526	37.009	47.069	30.187	5.026	24.344	5.285
3/2/2005 16:00	30.513	41.504	37.003	47.074	30.187	5.018	24.346	5.283
3/2/2005 20:00	30.528	41.536	37.035	47.088	30.204	5.02	24.354	5.291
3/3/2005 0:00	30.54	41.568	37.039	47.078	30.215	4.996	24.36	5.296
3/3/2005 4:00	30.545	41.585	37.041	47.076	30.23	4.987	24.366	5.298
3/3/2005 8:00	30.557	41.607	37.053	47.074	30.243	4.989	24.374	5.301
3/3/2005 12:00	30.56	41.604	37.043	47.046	30.251	4.988	24.377	5.298
3/3/2005 16:00	30.55	41.562	37.023	47.069	30.243	4.963	24.374	5.288
3/3/2005 20:00	30.555	41.588	37.059	47.081	30.262	4.977	24.381	5.298
3/4/2005 0:00	30.562	41.613	37.063	47.048	30.269	4.982	24.387	5.3
3/4/2005 4:00	30.57	41.611	37.059	47.048	30.273	4.973	24.391	5.298
3/4/2005 8:00	30.58	41.622	37.071	47.085	30.284	4.977	24.397	5.305
3/4/2005 12:00	30.595	41.652	37.079	47.08	30.306	4.986	24.403	5.306
3/4/2005 16:00	30.592	41.641	37.077	47.058	30.31	4.973	24.405	5.307
3/4/2005 20:00	30.607	41.686	37.11	47.088	30.336	4.973	24.416	5.319
3/5/2005 0:00	30.624	41.746	37.126	47.088	30.366	4.986	24.428	5.328
3/5/2005 4:00	30.639	41.782	37.134	47.06	30.385	4.996	24.437	5.332
3/5/2005 8:00	30.659	41.831	37.154	47.09	30.415	4.998	24.447	5.342
3/5/2005 12:00	30.674	41.865	37.158	47.092	30.439	5.004	24.455	5.344
3/5/2005 16:00	30.659	41.816	37.126	47.053	30.443	5.01	24.453	5.33
3/5/2005 20:00	30.667	41.801	37.136	47.078	30.433	4.994	24.457	5.331
3/6/2005 0:00	30.669	41.79	37.136	47.053	30.433	4.98	24.461	5.327
3/6/2005 4:00	30.649	41.763	37.124	47.088	30.42	4.978	24.459	5.32
3/6/2005 8:00	30.657	41.746	37.126	47.081	30.418	4.992	24.461	5.321
3/6/2005 12:00	30.652	41.729	37.116	47.074	30.415	4.977	24.461	5.315
3/6/2005 16:00	30.629	41.632	37.075	47.062	30.377	4.953	24.445	5.295
3/6/2005 20:00	30.617	41.603	37.081	47.037	30.357	4.945	24.441	5.291
3/7/2005 0:00	30.622	41.611	37.1	47.051	30.357	4.955	24.447	5.301
3/7/2005 4:00	30.632	41.662	37.134	47.081	30.374	4.945	24.459	5.314
3/7/2005 8:00	30.644	41.728	37.158	47.083	30.409	4.959	24.466	5.327
3/7/2005 12:00	30.677	41.793	37.17	47.088	30.446	4.988	24.48	5.335
3/7/2005 16:00	30.682	41.818	37.174	47.053	30.463	4.978	24.486	5.337
3/7/2005 20:00	30.709	41.87	37.198	47.055	30.493	4.988	24.497	5.35
3/8/2005 0:00	30.721	41.902	37.198	47.085	30.517	4.992	24.505	5.351
3/8/2005 4:00	30.724	41.91	37.198	47.076	30.521	5.009	24.509	5.349
3/8/2005 8:00	30.734	41.923	37.208	47.081	30.534	4.99	24.515	5.354
3/8/2005 12:00	30.744	41.936	37.21	47.081	30.549	4.976	24.521	5.354
3/8/2005 16:00	30.744	41.934	37.218	47.058	30.551	4.98	24.527	5.356
3/8/2005 20:00	30.756	41.949	37.226	47.083	30.562	4.997	24.53	5.358
3/9/2005 0:00	30.766	41.967	37.228	47.076	30.577	4.982	24.536	5.36
3/9/2005 4:00	30.763	41.963	37.232	47.048	30.579	4.974	24.54	5.358
3/9/2005 8:00	30.781	42.008	37.26	47.053	30.596	4.985	24.55	5.373
3/9/2005 12:00	30.796	42.055	37.26	47.078	30.626	4.997	24.559	5.374
3/9/2005 16:00	30.768	42.014	37.24	47.053	30.611	4.981	24.552	5.362
3/9/2005 20:00	30.783	41.985	37.244	47.074	30.616	4.997	24.563	5.36
3/10/2005 0:00	30.783	41.967	37.238	47.069	30.611	4.992	24.561	5.355
3/10/2005 4:00	30.758	41.891	37.196	47.028	30.579	4.968	24.552	5.333

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/10/2005 8:00	30.761	41.914	37.25	47.046	30.583	4.961	24.561	5.352
3/10/2005 12:00	30.786	41.963	37.26	47.071	30.611	4.968	24.569	5.36
3/10/2005 16:00	30.776	41.942	37.25	47.076	30.607	4.943	24.569	5.354
3/10/2005 20:00	30.791	42.04	37.307	47.088	30.644	4.939	24.571	5.377
3/11/2005 0:00	30.823	42.083	37.299	47.081	30.672	4.957	24.591	5.379
3/11/2005 4:00	30.833	42.1	37.301	47.076	30.68	4.966	24.597	5.379
3/11/2005 8:00	30.833	42.1	37.301	47.074	30.682	4.963	24.6	5.38
3/11/2005 12:00	30.836	42.07	37.279	47.071	30.685	4.97	24.6	5.368
3/11/2005 16:00	30.821	41.991	37.254	47.065	30.659	4.943	24.593	5.349
3/11/2005 20:00	30.806	41.938	37.25	47.065	30.629	4.933	24.587	5.34
3/12/2005 0:00	30.818	41.974	37.293	47.076	30.644	4.935	24.597	5.357
3/12/2005 4:00	30.813	41.974	37.279	47.071	30.646	4.931	24.602	5.352
3/12/2005 8:00	30.801	41.957	37.274	47.071	30.639	4.932	24.6	5.348
3/12/2005 12:00	30.831	42.019	37.321	47.083	30.689	4.941	24.61	5.365
3/12/2005 16:00	30.851	42.1	37.355	47.092	30.708	4.936	24.624	5.386
3/12/2005 20:00	30.863	42.177	37.359	47.06	30.738	4.953	24.633	5.394
3/13/2005 0:00	30.885	42.211	37.353	47.085	30.762	4.941	24.643	5.396
3/13/2005 4:00	30.895	42.233	37.367	47.083	30.771	4.956	24.649	5.4
3/13/2005 8:00	30.908	42.273	37.387	47.085	30.794	4.964	24.659	5.41
3/13/2005 12:00	30.92	42.286	37.383	47.085	30.816	4.954	24.664	5.409
3/13/2005 16:00	30.918	42.251	37.373	47.046	30.82	4.968	24.664	5.399
3/13/2005 20:00	30.933	42.275	37.407	47.085	30.816	4.975	24.672	5.41
3/14/2005 0:00	30.935	42.303	37.407	47.051	30.835	4.968	24.68	5.414
3/14/2005 4:00	30.943	42.318	37.415	47.051	30.846	4.983	24.688	5.419
3/14/2005 8:00	30.947	42.335	37.427	47.051	30.857	4.975	24.693	5.424
3/14/2005 12:00	30.94	42.356	37.429	47.055	30.88	4.968	24.688	5.428
3/14/2005 16:00	30.95	42.32	37.417	47.071	30.87	4.961	24.699	5.418
3/14/2005 20:00	30.969	42.333	37.445	47.078	30.876	4.977	24.705	5.426
3/15/2005 0:00	30.969	42.348	37.447	47.076	30.887	4.969	24.711	5.428
3/15/2005 4:00	30.975	42.36	37.447	47.044	30.898	4.961	24.717	5.429
3/15/2005 8:00	30.974	42.367	37.461	47.044	30.902	4.952	24.722	5.433
3/15/2005 12:00	30.987	42.374	37.459	47.071	30.908	4.966	24.726	5.43
3/15/2005 16:00	30.985	42.339	37.449	47.067	30.904	4.952	24.726	5.422
3/15/2005 20:00	30.992	42.339	37.476	47.074	30.908	4.971	24.734	5.428
3/16/2005 0:00	30.995	42.369	37.484	47.074	30.917	4.967	24.738	5.434
3/16/2005 4:00	30.992	42.36	37.48	47.041	30.915	4.962	24.742	5.428
3/16/2005 8:00	31.002	42.373	37.496	47.074	30.924	4.983	24.748	5.434
3/16/2005 12:00	31.01	42.371	37.488	47.039	30.936	4.992	24.75	5.43
3/16/2005 16:00	31	42.335	37.48	47.065	30.924	4.992	24.75	5.421
3/16/2005 20:00	31	42.328	37.498	47.069	30.926	5.008	24.752	5.425
3/17/2005 0:00	31.002	42.339	37.502	47.067	30.926	4.987	24.755	5.422
3/17/2005 4:00	31.002	42.339	37.502	47.067	30.924	4.979	24.759	5.422
3/17/2005 8:00	31.002	42.333	37.508	47.069	30.924	5.002	24.761	5.421
3/17/2005 12:00	30.987	42.327	37.504	47.034	30.93	4.998	24.763	5.418
3/17/2005 16:00	31	42.286	37.496	47.037	30.932	4.978	24.761	5.412
3/17/2005 20:00	31.002	42.305	37.524	47.074	30.93	4.971	24.765	5.42
3/18/2005 0:00	31.01	42.324	37.524	47.071	30.932	4.971	24.769	5.421
3/18/2005 4:00	31.007	42.316	37.522	47.065	30.93	4.966	24.771	5.416
3/18/2005 8:00	31.012	42.328	37.54	47.071	30.936	4.974	24.775	5.424
3/18/2005 12:00	31.046	42.339	37.542	47.044	30.911	4.8	24.779	5.417
3/18/2005 16:00	31.051	42.367	37.568	47.108	30.936	4.793	24.788	5.419

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/18/2005 20:00	31.073	42.439	37.596	47.148	30.969	4.777	24.796	5.432
3/19/2005 0:00	31.081	42.463	37.586	47.136	30.98	4.768	24.802	5.433
3/19/2005 4:00	31.063	42.474	37.59	47.162	30.988	4.757	24.808	5.433
3/19/2005 8:00	31.095	42.51	37.614	47.138	31.007	4.767	24.819	5.446
3/19/2005 12:00	31.095	42.527	37.624	47.143	31.025	4.765	24.826	5.452
3/19/2005 16:00	31.106	42.512	37.608	47.102	31.031	4.775	24.827	5.439
3/19/2005 20:00	31.121	42.508	37.626	47.136	31.038	4.782	24.831	5.444
3/20/2005 0:00	31.118	42.516	37.634	47.115	31.042	4.781	24.837	5.448
3/20/2005 4:00	31.125	42.506	37.63	47.111	31.042	4.763	24.841	5.446
3/20/2005 8:00	31.13	42.525	37.638	47.113	31.055	4.759	24.846	5.453
3/20/2005 12:00	31.13	42.501	37.63	47.136	31.055	4.765	24.851	5.447
3/20/2005 16:00	31.123	42.444	37.616	47.115	31.038	4.749	24.848	5.432
3/20/2005 20:00	31.133	42.435	37.64	47.083	31.042	4.763	24.851	5.436
3/21/2005 0:00	31.123	42.444	37.644	47.115	31.046	4.737	24.856	5.439
3/21/2005 4:00	31.123	42.422	37.64	47.108	31.04	4.739	24.856	5.432
3/21/2005 8:00	31.133	42.418	37.658	47.081	31.044	4.734	24.86	5.438
3/21/2005 12:00	31.135	42.431	37.66	47.115	31.057	4.747	24.86	5.437
3/21/2005 16:00	31.143	42.405	37.664	47.106	31.126	4.727	24.866	5.435
3/21/2005 20:00	31.153	42.427	37.693	47.127	31.066	4.735	24.872	5.449
3/22/2005 0:00	31.147	42.448	37.691	47.146	31.07	4.731	24.878	5.451
3/22/2005 4:00	31.14	42.414	37.683	47.097	31.048	4.753	24.88	5.441
3/22/2005 8:00	31.153	42.401	37.699	47.134	31.042	4.771	24.881	5.448
3/22/2005 12:00	31.133	42.395	37.707	47.12	31.046	4.756	24.886	5.452
3/22/2005 16:00	31.145	42.375	37.709	47.145	31.001	4.74	24.884	5.452
3/22/2005 20:00	31.133	42.365	37.727	47.162	30.984	4.747	24.862	5.456
3/23/2005 0:00	31.138	42.345	37.729	47.178	30.96	4.731	24.853	5.462
3/23/2005 4:00	31.13	42.296	37.725	47.159	30.93	4.74	24.855	5.455
3/23/2005 8:00	31.138	42.281	37.749	47.175	30.928	4.737	24.864	5.465
3/23/2005 12:00	31.14	42.273	37.745	47.166	30.925	4.735	24.874	5.464
3/23/2005 16:00	31.138	42.215	37.747	47.12	30.902	4.736	24.876	5.455
3/23/2005 20:00	31.14	42.173	37.751	47.141	30.886	4.752	24.88	5.457
3/24/2005 0:00	31.14	42.162	37.769	47.155	30.884	4.744	24.887	5.461
3/24/2005 4:00	31.14	42.128	37.753	47.104	30.867	4.748	24.889	5.452
3/24/2005 8:00	31.135	42.102	37.771	47.138	30.855	4.731	24.893	5.456
3/24/2005 12:00	31.135	42.077	37.771	47.099	30.833	4.728	24.891	5.453
3/24/2005 16:00	31.128	42.023	37.769	47.115	30.801	4.731	24.886	5.447
3/24/2005 20:00	31.14	42.023	37.801	47.138	30.781	4.727	24.887	5.459
3/25/2005 0:00	31.14	42.025	37.803	47.127	30.781	4.729	24.897	5.463
3/25/2005 4:00	31.135	42.014	37.807	47.169	30.766	4.719	24.901	5.465
3/25/2005 8:00	31.121	42.023	37.825	47.143	30.764	4.724	24.905	5.473
3/25/2005 12:00	31.175	42.032	37.829	47.148	30.775	4.728	24.911	5.476
3/25/2005 16:00	31.15	42.006	37.827	47.145	30.762	4.746	24.913	5.472
3/25/2005 20:00	31.16	41.999	37.839	47.15	30.758	4.738	24.917	5.477
3/26/2005 0:00	31.157	41.997	37.843	47.152	30.764	4.746	24.922	5.479
3/26/2005 4:00	31.16	41.978	37.841	47.15	30.755	4.75	24.926	5.475
3/26/2005 8:00	31.165	41.974	37.855	47.125	30.755	4.75	24.93	5.48
3/26/2005 12:00	31.168	41.978	37.859	47.152	30.762	4.742	24.934	5.482
3/26/2005 16:00	31.16	41.936	37.851	47.138	30.753	4.744	24.934	5.474
3/26/2005 20:00	31.163	41.918	37.862	47.138	30.738	4.74	24.936	5.473
3/27/2005 0:00	31.163	41.897	37.86	47.136	30.734	4.72	24.928	5.471
3/27/2005 4:00	31.155	41.873	37.862	47.132	30.725	4.736	24.94	5.466

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/27/2005 8:00	31.163	41.865	37.876	47.139	30.714	4.726	24.942	5.471
3/27/2005 12:00	31.16	41.858	37.866	47.104	30.751	4.726	24.944	5.467
3/27/2005 16:00	31.145	41.793	37.853	47.12	30.693	4.715	24.938	5.447
3/27/2005 20:00	31.143	41.763	37.868	47.118	30.678	4.716	24.94	5.443
3/28/2005 0:00	31.135	41.767	37.876	47.086	30.678	4.714	24.942	5.445
3/28/2005 4:00	31.138	41.743	37.872	47.108	30.669	4.738	24.944	5.441
3/28/2005 8:00	31.143	41.715	37.88	47.106	30.66	4.735	24.944	5.439
3/28/2005 12:00	31.138	41.722	37.876	47.104	30.665	4.74	24.946	5.441
3/28/2005 16:00	31.138	41.69	37.874	47.099	30.645	4.726	24.944	5.43
3/28/2005 20:00	31.123	41.677	37.886	47.071	30.639	4.712	24.946	5.428
3/29/2005 0:00	31.14	41.685	37.89	47.102	30.641	4.73	24.949	5.434
3/29/2005 4:00	31.071	41.639	37.872	47.062	30.626	4.736	24.946	5.421
3/29/2005 8:00	31.116	41.615	37.892	47.069	30.613	4.72	24.946	5.424
3/29/2005 12:00	31.135	41.624	37.896	47.099	30.619	4.716	24.949	5.427
3/29/2005 16:00	31.13	41.617	37.892	47.069	30.626	4.716	24.951	5.422
3/29/2005 20:00	31.135	41.628	37.902	47.099	30.632	4.712	24.952	5.426
3/30/2005 0:00	31.133	41.626	37.904	47.102	30.622	4.71	24.954	5.425
3/30/2005 4:00	31.135	41.583	37.892	47.065	30.609	4.72	24.954	5.418
3/30/2005 8:00	31.133	41.559	37.9	47.097	30.598	4.717	24.954	5.418
3/30/2005 12:00	31.158	41.596	37.924	47.108	30.613	4.733	24.96	5.431
3/30/2005 16:00	31.185	41.7	37.958	47.18	30.665	4.745	24.971	5.46
3/30/2005 20:00	31.202	41.779	37.962	47.164	30.697	4.751	24.979	5.473
3/31/2005 0:00	31.217	41.816	37.954	47.175	30.719	4.748	24.985	5.482
3/31/2005 4:00	31.225	41.829	37.96	47.095	30.734	4.755	24.987	5.486
3/31/2005 8:00	31.23	41.855	37.972	47.076	30.753	4.764	24.994	5.495
3/31/2005 12:00	31.245	41.882	37.964	47.083	30.779	4.772	24.996	5.494
3/31/2005 16:00	31.25	41.833	37.948	47.108	30.787	4.768	24.998	5.486
3/31/2005 20:00	31.257	41.839	37.964	47.104	30.787	4.782	25.002	5.494
4/1/2005 0:00	31.255	41.863	37.972	47.138	30.79	4.774	25.006	5.497
4/1/2005 4:00	31.262	41.837	37.97	47.136	30.781	4.789	25.008	5.494
4/1/2005 8:00	31.267	41.856	37.98	47.164	30.79	4.798	25.01	5.499
4/1/2005 12:00	31.269	41.844	37.97	47.106	30.809	4.789	25.012	5.493
4/1/2005 16:00	31.264	41.782	37.958	47.113	30.781	4.783	25.01	5.481
4/1/2005 20:00	31.269	41.773	37.98	47.122	30.781	4.775	25.014	5.486
4/2/2005 0:00	31.262	41.779	37.986	47.134	30.775	4.787	25.016	5.49
4/2/2005 4:00	31.279	41.771	37.986	47.139	30.77	4.798	25.02	5.49
4/2/2005 8:00	31.277	41.782	37.996	47.125	30.775	4.797	25.021	5.497
4/2/2005 12:00	31.272	41.769	37.984	47.108	30.785	4.804	25.021	5.487
4/2/2005 16:00	31.269	41.705	37.968	47.106	30.76	4.792	25.02	5.475
4/2/2005 20:00	31.264	41.675	37.984	47.102	30.749	4.79	25.018	5.477
4/3/2005 0:00	31.275	41.668	37.992	47.072	30.736	4.8	25.023	5.477
4/3/2005 4:00	31.269	41.673	38.008	47.081	30.731	4.798	25.025	5.483
4/3/2005 8:00	31.28	41.66	38.002	47.106	30.729	4.798	25.027	5.48
4/3/2005 12:00	31.277	41.669	37.998	47.108	30.734	4.79	25.029	5.481
4/3/2005 16:00	31.277	41.626	37.99	47.095	30.716	4.829	25.027	5.469
4/3/2005 20:00	31.282	41.615	38.005	47.069	30.717	4.823	25.031	5.476
4/4/2005 0:00	31.275	41.626	38.014	47.074	30.717	4.809	25.033	5.479
4/4/2005 4:00	31.272	41.604	38.002	47.09	30.703	4.782	25.033	5.471
4/4/2005 8:00	31.24	41.604	38.017	47.099	30.717	4.79	25.035	5.477
4/4/2005 12:00	31.252	41.581	38.012	47.097	30.712	4.811	25.035	5.476
4/4/2005 16:00	31.28	41.568	38.005	47.09	30.786	4.8	25.033	5.466

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/4/2005 20:00	31.29	41.547	38.021	47.095	30.723	4.784	25.037	5.47
4/5/2005 0:00	31.29	41.577	38.029	47.102	30.715	4.786	25.039	5.477
4/5/2005 4:00	31.28	41.564	38.022	47.095	30.699	4.777	25.041	5.472
4/5/2005 8:00	31.3	41.581	38.04	47.104	30.71	4.792	25.045	5.482
4/5/2005 12:00	31.307	41.628	38.047	47.09	30.745	4.792	25.047	5.489
4/5/2005 16:00	31.319	41.645	38.043	47.127	30.749	4.784	25.043	5.489
4/5/2005 20:00	31.327	41.698	38.067	47.146	30.777	4.793	25.054	5.503
4/6/2005 0:00	31.324	41.713	38.045	47.178	30.786	4.824	25.054	5.497
4/6/2005 4:00	31.327	41.711	38.051	47.169	30.788	4.819	25.056	5.498
4/6/2005 8:00	31.243	41.671	38.032	47.118	30.343	4.763	24.822	5.471
4/6/2005 12:00	31.091	41.498	37.944	47.113	29.855	4.547	24.328	5.345
4/6/2005 16:00	30.9	41.34	37.874	47.118	29.711	4.457	24.164	5.213
4/6/2005 20:00	30.781	41.207	37.834	47.15	29.564	4.475	24.138	5.127
4/7/2005 0:00	30.662	41.111	37.807	47.123	29.439	4.49	24.119	5.052
4/7/2005 4:00	30.56	41.019	37.783	47.155	29.338	4.525	24.117	4.982
4/7/2005 8:00	30.491	40.966	37.773	47.157	29.282	4.59	24.125	4.924
4/7/2005 12:00	30.426	40.93	37.747	47.134	29.256	4.623	24.141	4.87
4/7/2005 16:00	30.344	40.84	37.689	47.111	29.205	4.632	24.139	4.804
4/7/2005 20:00	30.303	40.776	37.653	47.109	29.168	4.642	24.14	4.761
4/8/2005 0:00	30.273	40.752	37.604	47.141	29.164	4.648	24.146	4.726
4/8/2005 4:00	30.221	40.716	37.564	47.113	29.153	4.646	24.146	4.691
4/8/2005 8:00	30.206	40.692	37.548	47.143	29.153	4.63	24.143	4.667
4/8/2005 12:00	30.197	40.656	37.502	47.102	29.164	4.648	24.145	4.639
4/8/2005 16:00	30.156	40.577	37.46	47.122	29.136	4.645	24.131	4.606
4/8/2005 20:00	30.12	40.53	37.462	47.12	29.116	4.63	24.121	4.587
4/9/2005 0:00	30.13	40.539	37.494	47.134	29.131	4.626	24.125	4.582
4/9/2005 4:00	30.117	40.498	37.48	47.123	29.121	4.62	24.118	4.562
4/9/2005 8:00	30.085	40.494	37.472	47.093	29.13	4.622	24.116	4.55
4/9/2005 12:00	30.072	40.488	37.469	47.118	29.147	4.616	24.112	4.541
4/9/2005 16:00	30.065	40.455	37.454	47.106	29.149	4.62	24.11	4.529
4/9/2005 20:00	30.087	40.46	37.474	47.12	29.158	4.628	24.112	4.531
4/10/2005 0:00	30.095	40.496	37.48	47.148	29.186	4.624	24.121	4.535
4/10/2005 4:00	30.092	40.485	37.458	47.136	29.193	4.639	24.119	4.526
4/10/2005 8:00	30.105	40.526	37.49	47.178	29.221	4.632	24.129	4.539
4/10/2005 12:00	30.11	40.517	37.452	47.132	29.242	4.616	24.129	4.529
4/10/2005 16:00	30.095	40.49	37.441	47.136	29.24	4.62	24.125	4.525
4/10/2005 20:00	30.097	40.511	37.462	47.157	29.257	4.627	24.133	4.535
4/11/2005 0:00	30.095	40.526	37.455	47.136	29.251	4.623	24.121	4.535
4/11/2005 4:00	30.077	40.517	37.466	47.173	29.212	4.628	24.119	4.54
4/11/2005 8:00	30.07	40.488	37.454	47.169	29.158	4.612	24.114	4.544
4/11/2005 12:00	30.065	40.455	37.434	47.152	29.13	4.612	24.11	4.539
4/11/2005 16:00	30.02	40.402	37.419	47.12	29.1	4.61	24.108	4.533
4/11/2005 20:00	29.51	40.24	37.399	47.13	28.466	3.137	23.678	4.015
4/12/2005 0:00	29.086	40.09	37.329	47.15	28.275	3.284	23.165	3.603
4/12/2005 4:00	28.766	39.965	37.305	47.166	28.174	3.602	22.994	3.394
4/12/2005 8:00	28.54	39.879	37.281	47.15	28.096	3.845	22.88	3.247
4/12/2005 12:00	28.396	39.826	37.138	47.153	28.04	4.032	22.795	3.141
4/12/2005 16:00	28.306	39.757	37.003	47.12	27.997	4.166	22.729	3.055
4/12/2005 20:00	28.242	39.715	36.923	47.127	27.963	4.255	22.685	2.988
4/13/2005 0:00	28.2	39.685	36.856	47.16	27.956	4.327	22.652	2.938
4/13/2005 4:00	28.175	39.661	36.796	47.169	27.96	4.374	22.629	2.897

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/13/2005 8:00	28.19	39.672	36.766	47.153	27.975	4.39	22.621	2.873
4/13/2005 12:00	28.153	39.678	36.726	47.095	28.006	4.4	22.619	2.85
4/13/2005 16:00	28.198	39.64	36.671	47.093	28.014	4.434	22.61	2.832
4/13/2005 20:00	28.207	39.633	36.668	47.097	28.036	4.44	22.61	2.824
4/14/2005 0:00	28.222	39.646	36.668	47.106	28.053	4.446	22.619	2.824
4/14/2005 4:00	28.252	39.631	36.648	47.079	28.075	4.435	22.621	2.824
4/14/2005 8:00	28.274	39.627	36.637	47.113	28.092	4.44	22.627	2.827
4/14/2005 12:00	28.274	39.608	36.599	47.111	28.116	4.467	22.627	2.824
4/14/2005 16:00	28.264	39.548	36.573	47.069	28.112	4.477	22.617	2.819
4/14/2005 20:00	28.284	39.527	36.597	47.111	28.112	4.497	22.619	2.832
4/15/2005 0:00	28.282	39.55	36.645	47.116	28.129	4.495	22.629	2.849
4/15/2005 4:00	28.336	39.559	36.667	47.113	28.151	4.494	22.643	2.866
4/15/2005 8:00	28.373	39.578	36.678	47.155	28.185	4.51	22.658	2.885
4/15/2005 12:00	28.386	39.578	36.661	47.148	28.211	4.506	22.664	2.896
4/15/2005 16:00	28.391	39.533	36.633	47.09	28.213	4.504	22.664	2.902
4/15/2005 20:00	28.408	39.533	36.646	47.102	28.224	4.521	22.672	2.923
4/16/2005 0:00	28.428	39.548	36.656	47.143	28.241	4.51	22.686	2.946
4/16/2005 4:00	28.458	39.559	36.655	47.125	28.256	4.519	22.697	2.965
4/16/2005 8:00	28.493	39.587	36.671	47.176	28.291	4.542	22.716	2.992
4/16/2005 12:00	28.502	39.589	36.649	47.166	28.3	4.54	22.713	3.005
4/16/2005 16:00	28.517	39.546	36.623	47.13	28.313	4.542	22.726	3.021
4/16/2005 20:00	28.542	39.546	36.637	47.104	28.317	4.548	22.735	3.044
4/17/2005 0:00	28.572	39.572	36.649	47.153	28.336	4.548	22.751	3.071
4/17/2005 4:00	28.582	39.565	36.631	47.139	28.345	4.543	22.761	3.087
4/17/2005 8:00	28.612	39.584	36.647	47.118	28.362	4.544	22.774	3.11
4/17/2005 12:00	28.614	39.569	36.623	47.127	28.373	4.552	22.775	3.126
4/17/2005 16:00	28.604	39.527	36.601	47.102	28.362	4.538	22.774	3.141
4/17/2005 20:00	28.629	39.512	36.605	47.069	28.371	4.544	22.78	3.166
4/18/2005 0:00	28.639	39.531	36.615	47.072	28.386	4.538	22.792	3.189
4/18/2005 4:00	28.644	39.525	36.605	47.069	28.39	4.554	22.8	3.208
4/18/2005 8:00	28.676	39.533	36.611	47.079	28.408	4.548	22.807	3.228
4/18/2005 12:00	28.681	39.535	36.599	47.102	28.425	4.542	22.815	3.246
4/18/2005 16:00	28.678	39.499	36.577	47.09	28.417	4.565	22.811	3.262
4/18/2005 20:00	28.698	39.488	36.579	47.09	28.429	4.561	22.813	3.278
4/19/2005 0:00	28.725	39.542	36.605	47.069	28.46	4.559	22.835	3.305
4/19/2005 4:00	28.735	39.522	36.583	47.095	28.455	4.561	22.837	3.318
4/19/2005 8:00	28.773	39.561	36.629	47.109	28.492	4.561	22.856	3.351
4/19/2005 12:00	28.792	39.587	36.627	47.106	28.518	4.569	22.868	3.37
4/19/2005 16:00	28.807	39.586	36.621	47.074	28.539	4.568	22.875	3.39
4/19/2005 20:00	28.845	39.618	36.641	47.081	28.578	4.574	22.888	3.42
4/20/2005 0:00	28.877	39.668	36.655	47.13	28.608	4.58	22.91	3.446
4/20/2005 4:00	28.892	39.676	36.649	47.13	28.623	4.582	22.921	3.463
4/20/2005 8:00	28.907	39.706	36.677	47.12	28.645	4.586	22.947	3.491
4/20/2005 12:00	28.936	39.719	36.659	47.139	28.677	4.586	22.951	3.506
4/20/2005 16:00	28.951	39.719	36.663	47.109	28.696	4.58	22.96	3.53
4/20/2005 20:00	28.964	39.734	36.672	47.106	28.716	4.588	22.972	3.555
4/21/2005 0:00	28.994	39.783	36.697	47.164	28.748	4.582	22.991	3.585
4/21/2005 4:00	28.959	39.749	36.671	47.141	28.597	4.553	22.96	3.582
4/21/2005 8:00	28.939	39.706	36.637	47.125	28.474	4.562	22.879	3.606
4/21/2005 12:00	28.909	39.665	36.641	47.16	28.429	4.578	22.895	3.62
4/21/2005 16:00	28.855	39.533	36.597	47.106	28.328	4.562	22.887	3.619

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/21/2005 20:00	28.872	39.518	36.645	47.097	28.289	4.566	22.908	3.642
4/22/2005 0:00	28.852	39.493	36.631	47.093	28.268	4.553	22.924	3.649
4/22/2005 4:00	28.827	39.428	36.621	47.111	28.229	4.55	22.926	3.657
4/22/2005 8:00	28.855	39.448	36.673	47.139	28.233	4.558	22.943	3.68
4/22/2005 12:00	28.909	39.548	36.728	47.148	28.298	4.559	22.99	3.709
4/22/2005 16:00	28.951	39.595	36.744	47.123	28.343	4.576	23.019	3.728
4/22/2005 20:00	28.976	39.629	36.75	47.12	28.378	4.579	23.042	3.75
4/23/2005 0:00	29.008	39.655	36.758	47.153	28.412	4.581	23.063	3.767
4/23/2005 4:00	29.013	39.655	36.76	47.153	28.427	4.601	23.079	3.784
4/23/2005 8:00	29.048	39.676	36.772	47.132	28.457	4.591	23.098	3.801
4/23/2005 12:00	29.043	39.663	36.756	47.15	28.487	4.572	23.108	3.814
4/23/2005 16:00	29.021	39.606	36.726	47.136	28.47	4.589	23.106	3.821
4/23/2005 20:00	29.026	39.576	36.728	47.134	28.457	4.581	23.104	3.834
4/24/2005 0:00	29.041	39.591	36.738	47.136	28.492	4.574	23.115	3.848
4/24/2005 4:00	29.038	39.593	36.738	47.106	28.517	4.579	23.123	3.858
4/24/2005 8:00	29.051	39.593	36.736	47.136	28.531	4.575	23.127	3.868
4/24/2005 12:00	29.038	39.574	36.716	47.13	28.52	4.573	23.127	3.871
4/24/2005 16:00	29.008	39.499	36.677	47.116	28.544	4.569	23.11	3.871
4/24/2005 20:00	28.996	39.461	36.673	47.074	28.466	4.56	23.102	3.879
4/25/2005 0:00	28.996	39.458	36.687	47.113	28.468	4.56	23.102	3.888
4/25/2005 4:00	28.976	39.426	36.665	47.104	28.458	4.585	23.094	3.885
4/25/2005 8:00	28.989	39.411	36.671	47.102	28.466	4.565	23.092	3.891
4/25/2005 12:00	28.996	39.429	36.675	47.067	28.481	4.554	23.094	3.896
4/25/2005 16:00	28.996	39.401	36.657	47.093	28.488	4.553	23.09	3.9
4/25/2005 20:00	29.016	39.439	36.683	47.067	28.496	4.582	23.102	3.907
4/26/2005 0:00	29.028	39.465	36.681	47.072	28.522	4.563	23.113	3.912
4/26/2005 4:00	29.038	39.458	36.671	47.097	28.526	4.555	23.111	3.914
4/26/2005 8:00	29.073	39.508	36.708	47.106	28.561	4.567	23.129	3.932
4/26/2005 12:00	29.11	39.563	36.724	47.125	28.61	4.582	23.148	3.944
4/26/2005 16:00	29.128	39.597	36.718	47.141	28.638	4.579	23.16	3.952
4/26/2005 20:00	29.15	39.631	36.736	47.16	28.666	4.586	23.173	3.967
4/27/2005 0:00	29.195	39.693	36.752	47.109	28.716	4.589	23.195	3.978
4/27/2005 4:00	29.222	39.732	36.758	47.143	28.755	4.599	23.206	3.992
4/27/2005 8:00	29.232	39.766	36.766	47.118	28.792	4.603	23.226	4.006
4/27/2005 12:00	29.261	39.791	36.762	47.15	28.833	4.613	23.235	4.018
4/27/2005 16:00	29.279	39.772	36.742	47.141	28.852	4.617	23.243	4.026
4/27/2005 20:00	29.294	39.787	36.758	47.141	28.86	4.616	23.251	4.039
4/28/2005 0:00	29.303	39.813	36.756	47.139	28.882	4.616	23.263	4.05
4/28/2005 4:00	29.313	39.817	36.762	47.141	28.895	4.618	23.268	4.057
4/28/2005 8:00	29.338	39.86	36.782	47.15	28.923	4.615	23.284	4.072
4/28/2005 12:00	29.355	39.879	36.768	47.148	28.953	4.631	23.292	4.078
4/28/2005 16:00	29.358	39.87	36.758	47.102	28.966	4.65	23.297	4.083
4/28/2005 20:00	29.37	39.875	36.764	47.134	28.972	4.634	23.303	4.095
4/29/2005 0:00	29.385	39.913	36.776	47.141	29	4.632	23.317	4.107
4/29/2005 4:00	29.39	39.898	36.764	47.134	29.002	4.623	23.321	4.112
4/29/2005 8:00	29.41	39.924	36.776	47.134	29.022	4.628	23.33	4.12
4/29/2005 12:00	29.432	39.956	36.788	47.139	29.054	4.632	23.342	4.132
4/29/2005 16:00	29.43	39.954	36.766	47.097	29.062	4.628	23.344	4.134
4/29/2005 20:00	29.445	39.964	36.786	47.134	29.076	4.645	23.354	4.149
4/30/2005 0:00	29.46	40.018	36.806	47.143	29.127	4.641	23.369	4.163
4/30/2005 4:00	29.494	40.041	36.804	47.141	29.155	4.626	23.381	4.169

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/30/2005 8:00	29.47	40.075	36.828	47.146	29.181	4.632	23.394	4.183
4/30/2005 12:00	29.522	40.086	36.804	47.106	29.186	4.626	23.404	4.185
4/30/2005 16:00	29.524	40.067	36.798	47.099	29.19	4.632	23.406	4.192
4/30/2005 20:00	29.544	40.076	36.812	47.134	29.199	4.622	23.415	4.207
5/1/2005 0:00	29.571	40.099	36.822	47.132	29.217	4.629	23.427	4.217
5/1/2005 4:00	29.591	40.142	36.836	47.141	29.248	4.628	23.443	4.226
5/1/2005 8:00	29.606	40.186	36.858	47.118	29.28	4.635	23.46	4.24
5/1/2005 12:00	29.619	40.195	36.838	47.104	29.298	4.631	23.468	4.242
5/1/2005 16:00	29.621	40.171	36.824	47.125	29.33	4.625	23.462	4.248
5/1/2005 20:00	29.633	40.178	36.838	47.127	29.317	4.627	23.475	4.261
5/2/2005 0:00	29.651	40.219	36.854	47.13	29.36	4.635	23.491	4.271
5/2/2005 4:00	29.661	40.218	36.854	47.13	29.377	4.617	23.497	4.277
5/2/2005 8:00	29.671	40.236	36.866	47.102	29.385	4.61	23.508	4.285
5/2/2005 12:00	29.683	40.236	36.856	47.127	29.392	4.618	23.516	4.291
5/2/2005 16:00	29.668	40.186	36.832	47.097	29.386	4.617	23.512	4.292
5/2/2005 20:00	29.676	40.161	36.832	47.093	29.382	4.612	23.514	4.301
5/3/2005 0:00	29.685	40.193	36.854	47.081	29.394	4.612	23.526	4.31
5/3/2005 4:00	29.703	40.208	36.86	47.104	29.427	4.625	23.532	4.319
5/3/2005 8:00	29.725	40.242	36.88	47.113	29.442	4.619	23.545	4.327
5/3/2005 12:00	29.725	40.248	36.87	47.107	29.45	4.625	23.553	4.329
5/3/2005 16:00	29.722	40.21	36.85	47.062	29.44	4.627	23.547	4.332
5/3/2005 20:00	29.732	40.199	36.858	47.093	29.453	4.633	23.555	4.343
5/4/2005 0:00	29.747	40.238	36.876	47.099	29.465	4.623	23.568	4.351
5/4/2005 4:00	29.758	40.255	36.884	47.072	29.476	4.628	23.576	4.359
5/4/2005 8:00	29.767	40.291	36.897	47.106	29.5	4.607	23.588	4.371
5/4/2005 12:00	29.785	40.319	36.893	47.069	29.521	4.598	23.597	4.372
5/4/2005 16:00	29.765	40.274	36.86	47.086	29.509	4.591	23.59	4.37
5/4/2005 20:00	29.775	40.265	36.868	47.058	29.511	4.648	23.592	4.381
5/5/2005 0:00	29.797	40.325	36.899	47.097	29.541	4.642	23.607	4.394
5/5/2005 4:00	29.787	40.332	36.891	47.093	29.547	4.628	23.613	4.396
5/5/2005 8:00	29.827	40.368	36.903	47.067	29.577	4.627	23.623	4.406
5/5/2005 12:00	29.804	40.409	36.895	47.088	29.724	4.638	23.628	4.407
5/5/2005 16:00	29.827	40.362	36.872	47.081	29.616	4.622	23.625	4.407
5/5/2005 20:00	29.827	40.351	36.882	47.086	29.603	4.654	23.628	4.42
5/6/2005 0:00	29.842	40.383	36.895	47.063	29.618	4.673	23.638	4.428
5/6/2005 4:00	29.844	40.392	36.891	47.056	29.614	4.656	23.642	4.43
5/6/2005 8:00	29.861	40.409	36.903	47.062	29.629	4.647	23.648	4.438
5/6/2005 12:00	29.849	40.413	36.888	47.088	29.655	4.649	23.65	4.438
5/6/2005 16:00	29.834	40.37	36.858	47.049	29.668	4.648	23.64	4.439
5/6/2005 20:00	29.852	40.379	36.878	47.053	29.674	4.65	23.64	4.456
5/7/2005 0:00	29.864	40.423	36.895	47.056	29.674	4.655	23.658	4.466
5/7/2005 4:00	29.866	40.428	36.893	47.058	29.672	4.645	23.661	4.47
5/7/2005 8:00	29.874	40.443	36.897	47.083	29.681	4.639	23.663	4.473
5/7/2005 12:00	29.876	40.441	36.889	47.088	29.694	4.643	23.669	4.482
5/7/2005 16:00	29.871	40.426	36.886	47.079	29.715	4.655	23.669	4.491
5/7/2005 20:00	29.852	40.426	36.893	47.053	29.689	4.657	23.673	4.503
5/8/2005 0:00	29.901	40.477	36.915	47.053	29.72	4.641	23.685	4.512
5/8/2005 4:00	29.886	40.47	36.897	47.079	29.72	4.651	23.687	4.511
5/8/2005 8:00	29.911	40.477	36.899	47.076	29.724	4.643	23.688	4.514
5/8/2005 12:00	29.909	40.488	36.899	47.042	29.737	4.647	23.692	4.523
5/8/2005 16:00	29.891	40.496	36.901	47.074	29.752	4.647	23.698	4.538

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
5/8/2005 20:00	29.933	40.554	36.957	47.058	29.825	4.639	23.714	4.565
5/9/2005 0:00	29.926	40.543	36.903	47.077	29.747	4.634	23.709	4.547
5/9/2005 4:00	29.909	40.556	36.925	47.049	29.722	4.625	23.721	4.555
5/9/2005 8:00	29.961	40.596	36.957	47.084	29.73	4.625	23.735	4.565
5/9/2005 12:00	29.973	40.626	36.949	47.081	29.756	4.645	23.747	4.573
5/9/2005 16:00	29.971	40.616	36.937	47.051	29.767	4.654	23.747	4.582
5/9/2005 20:00	29.981	40.611	36.947	47.053	29.771	4.649	23.756	4.597
5/10/2005 0:00	29.993	40.646	36.961	47.083	29.797	4.648	23.768	4.604
5/10/2005 4:00	29.995	40.66	36.965	47.086	29.81	4.641	23.776	4.608
5/10/2005 8:00	30.013	40.675	36.969	47.088	29.859	4.652	23.781	4.611
5/10/2005 12:00	30.003	40.671	36.949	47.083	29.84	4.66	23.783	4.616
5/10/2005 16:00	29.993	40.654	36.951	47.051	29.84	4.656	23.785	4.636
5/10/2005 20:00	30.005	40.652	36.957	47.053	29.853	4.657	23.789	4.651
5/11/2005 0:00	30.03	40.673	36.965	47.056	29.87	4.676	23.797	4.656
5/11/2005 4:00	30.053	40.744	37.007	47.09	29.896	4.668	23.814	4.674
5/11/2005 8:00	30.077	40.812	37.029	47.069	29.926	4.675	23.829	4.684
5/11/2005 12:00	30.075	40.821	36.991	47.09	29.946	4.662	23.835	4.678
5/11/2005 16:00	30.082	40.818	37.005	47.1	29.918	4.644	23.843	4.685
5/11/2005 20:00	30.067	40.814	37.009	47.083	29.894	4.625	23.849	4.681
5/12/2005 0:00	30.048	40.795	37.021	47.099	29.747	4.625	23.82	4.691
5/12/2005 4:00	30.028	40.763	37.013	47.102	29.709	4.635	23.83	4.69
5/12/2005 8:00	29.978	40.735	37.057	47.113	29.495	4.609	23.742	4.688
5/12/2005 12:00	29.896	40.631	36.979	47.079	29.372	4.607	23.615	4.681
5/12/2005 16:00	29.824	40.483	36.955	47.083	29.282	4.617	23.624	4.678
5/12/2005 20:00	28.478	40.186	36.903	47.084	28.306	3.126	23.079	0.487
5/13/2005 0:00	27.609	39.868	36.848	47.102	27.881	3.329	22.515	0.345
5/13/2005 4:00	27.014	39.561	36.762	47.086	27.508	3.557	22.219	0.302
5/13/2005 8:00	26.596	39.315	36.583	47.107	27.201	3.746	21.69	0.309
5/13/2005 12:00	26.291	39.138	36.255	47.12	27.011	3.907	21.25	0.341
5/13/2005 16:00	26.063	38.984	36.006	47.123	26.897	4.026	21.06	0.368
5/13/2005 20:00	25.917	38.861	35.819	47.127	26.848	4.104	20.9	0.398
5/14/2005 0:00	25.81	38.75	35.634	47.125	26.783	4.148	20.81	0.422
5/14/2005 4:00	25.743	38.639	35.422	47.121	26.735	4.164	20.743	0.442
5/14/2005 8:00	25.706	38.564	35.261	47.118	26.706	4.14	20.694	0.466
5/14/2005 12:00	25.696	38.536	35.098	47.132	26.736	4.17	20.663	0.515
5/14/2005 16:00	25.679	38.47	34.908	47.086	26.725	4.1	20.625	0.551
5/14/2005 20:00	25.677	38.412	34.735	47.077	26.701	4.164	20.603	0.59
5/15/2005 0:00	25.689	38.384	34.578	47.067	26.693	4.209	20.596	0.628
5/15/2005 4:00	25.699	38.346	34.392	47.093	26.691	4.2	20.58	0.653
5/15/2005 8:00	25.744	38.348	34.261	47.084	26.708	4.207	20.592	0.696
5/15/2005 12:00	25.749	38.308	34.062	47.047	26.715	4.202	20.576	0.725
5/15/2005 16:00	25.746	38.237	33.873	47.06	26.708	4.23	20.551	0.756
5/15/2005 20:00	25.754	38.169	33.721	47.049	26.691	4.236	20.532	0.785
5/16/2005 0:00	25.788	38.156	33.644	47.044	26.707	4.256	20.543	0.823
5/16/2005 4:00	25.823	38.122	33.508	47	26.704	4.232	20.539	0.848
5/16/2005 8:00	25.865	38.109	33.411	47.019	26.719	4.207	20.557	0.886
5/16/2005 12:00	25.883	38.079	33.276	47.005	26.735	4.208	20.553	0.921
5/16/2005 16:00	25.88	38	33.086	46.984	26.719	4.176	20.53	0.956
5/16/2005 20:00	25.93	37.975	32.971	46.975	26.741	4.211	20.547	1.011
5/17/2005 0:00	25.977	37.983	32.883	46.961	26.741	4.203	20.572	1.056
5/17/2005 4:00	26.014	37.962	32.798	46.95	26.741	4.195	20.584	1.084

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
5/17/2005 8:00	26.059	37.962	32.748	46.929	26.763	4.191	20.611	1.123
5/17/2005 12:00	26.089	37.936	32.668	46.908	26.765	4.199	20.623	1.166
5/17/2005 16:00	26.111	37.889	32.583	46.885	26.759	4.207	20.619	1.213
5/17/2005 20:00	26.175	37.896	32.525	46.848	26.781	4.187	20.656	1.279
5/18/2005 0:00	26.24	37.923	32.459	46.852	26.809	4.179	20.698	1.323
5/18/2005 4:00	26.285	37.932	32.394	46.811	26.828	4.197	20.729	1.359
5/18/2005 8:00	26.339	37.923	32.322	46.783	26.845	4.198	20.751	1.39
5/18/2005 12:00	26.404	37.947	32.259	46.795	26.875	4.177	20.789	1.445
5/18/2005 16:00	26.441	37.945	32.177	46.751	26.895	4.2	20.811	1.492
5/18/2005 20:00	26.498	37.943	32.074	46.757	26.923	4.202	20.84	1.543
5/19/2005 0:00	26.558	38.004	31.98	46.746	26.963	4.201	20.892	1.591
5/19/2005 4:00	26.565	37.99	31.847	46.723	26.974	4.191	20.912	1.614
5/19/2005 8:00	26.657	38.011	31.753	46.691	27.007	4.194	20.947	1.651
5/19/2005 12:00	26.687	38.019	31.63	46.679	27.045	4.233	20.962	1.698
5/19/2005 16:00	26.719	37.988	31.483	46.656	27.071	4.253	20.978	1.759
5/19/2005 20:00	26.774	38.007	31.395	46.603	27.102	4.262	21.014	1.827
5/20/2005 0:00	26.836	38.058	31.345	46.587	27.136	4.258	21.057	1.874
5/20/2005 4:00	26.885	38.071	31.258	46.596	27.16	4.284	21.086	1.904
5/20/2005 8:00	26.952	38.139	31.238	46.575	27.214	4.286	21.134	1.948
5/20/2005 12:00	26.994	38.161	31.156	46.552	27.259	4.295	21.162	1.993
5/20/2005 16:00	27.012	38.133	31.027	46.524	27.272	4.289	21.171	2.044
5/20/2005 20:00	27.056	38.133	30.949	46.494	27.3	4.31	21.196	2.105
5/21/2005 0:00	27.096	38.156	30.896	46.469	27.325	4.295	21.223	2.143
5/21/2005 4:00	27.114	38.141	30.804	46.441	27.332	4.281	21.231	2.165
5/21/2005 8:00	27.136	38.12	30.709	46.409	27.336	4.287	21.241	2.186
5/21/2005 12:00	27.133	38.092	30.597	46.374	27.341	4.285	21.241	2.216
5/21/2005 16:00	27.153	38.069	30.48	46.342	27.405	4.26	21.237	2.262
5/21/2005 20:00	27.185	38.06	30.434	46.286	27.375	4.299	21.261	2.32
5/22/2005 0:00	27.225	38.094	30.418	46.289	27.396	4.293	21.289	2.351
5/22/2005 4:00	27.287	38.146	30.45	46.272	27.422	4.293	21.332	2.391
5/22/2005 8:00	27.35	38.216	30.494	46.229	27.472	4.302	21.379	2.425
5/22/2005 12:00	27.364	38.242	30.462	46.238	27.513	4.299	21.404	2.474
5/22/2005 16:00	27.384	38.203	30.337	46.18	27.545	4.306	21.404	2.522
5/22/2005 20:00	27.409	38.191	30.279	46.187	27.556	4.295	21.417	2.575
5/23/2005 0:00	27.424	38.203	30.249	46.166	27.562	4.277	21.433	2.603
5/23/2005 4:00	27.444	38.191	30.198	46.111	27.556	4.305	21.445	2.626
5/23/2005 8:00	27.486	38.216	30.194	46.111	27.584	4.293	21.466	2.656
5/23/2005 12:00	27.509	38.267	30.168	46.099	27.782	4.289	21.485	2.699
5/23/2005 16:00	27.516	38.235	30.084	46.039	27.685	4.314	21.487	2.747
5/23/2005 20:00	27.541	38.22	30.057	46.048	27.717	4.3	21.501	2.794
5/24/2005 0:00	27.585	38.267	30.128	46.007	27.704	4.32	21.536	2.828
5/24/2005 4:00	27.615	38.267	30.142	45.988	27.691	4.302	21.555	2.851
5/24/2005 8:00	27.65	38.282	30.172	46.002	27.709	4.322	21.576	2.873
5/24/2005 12:00	27.672	38.302	30.198	45.986	27.737	4.335	21.598	2.908
5/24/2005 16:00	27.702	38.372	30.2	45.967	27.818	4.333	21.611	2.955
5/24/2005 20:00	27.727	38.417	30.206	45.951	27.909	4.343	21.628	3.002
5/25/2005 0:00	27.776	38.455	30.312	45.944	27.872	4.345	21.665	3.039
5/25/2005 4:00	27.759	38.457	30.322	45.93	27.859	4.329	21.673	3.047
5/25/2005 8:00	27.834	38.492	30.414	45.921	27.874	4.348	21.704	3.079
5/25/2005 12:00	27.854	38.551	30.44	45.907	27.945	4.34	21.718	3.108
5/25/2005 16:00	27.844	38.515	30.428	45.887	28.01	4.376	21.721	3.151

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
5/25/2005 20:00	27.916	38.566	30.589	45.889	27.98	4.359	21.766	3.203
5/26/2005 0:00	27.958	38.594	30.689	45.85	27.988	4.354	21.795	3.227
5/26/2005 4:00	27.983	38.603	30.74	45.87	27.991	4.352	21.814	3.244
5/26/2005 8:00	28.002	38.613	30.802	45.863	28.003	4.37	21.832	3.268
5/26/2005 12:00	28.012	38.603	30.814	45.852	28.019	4.391	21.841	3.295
5/26/2005 16:00	27.965	38.545	30.757	45.827	28.023	4.391	21.832	3.332
5/26/2005 20:00	27.985	38.521	30.761	45.817	28.006	4.403	21.834	3.372
5/27/2005 0:00	28.037	38.555	30.83	45.801	28.025	4.393	21.863	3.401
5/27/2005 4:00	28.052	38.568	30.854	45.787	28.038	4.398	21.874	3.415
5/27/2005 8:00	28.074	38.577	30.884	45.773	28.057	4.393	21.884	3.432
5/27/2005 12:00	28.072	38.577	30.908	45.759	28.074	4.391	21.898	3.469
5/27/2005 16:00	28.079	38.577	30.872	45.713	28.113	4.39	21.894	3.494
5/27/2005 20:00	28.057	38.547	30.844	45.718	28.094	4.389	21.892	3.524
5/28/2005 0:00	28.089	38.577	30.908	45.676	28.1	4.373	21.915	3.546
5/28/2005 4:00	28.124	38.59	30.934	45.697	28.111	4.384	21.927	3.559
5/28/2005 8:00	28.151	38.62	30.998	45.688	28.133	4.362	21.946	3.576
5/28/2005 12:00	28.161	38.641	31.022	45.672	28.163	4.394	21.958	3.605
5/28/2005 16:00	28.164	38.609	30.988	45.658	28.169	4.396	21.957	3.639
5/28/2005 20:00	28.169	38.596	30.994	45.612	28.167	4.381	21.961	3.665
5/29/2005 0:00	28.184	38.622	31.042	45.63	28.182	4.373	21.98	3.68
5/29/2005 4:00	28.194	38.609	31.036	45.584	28.184	4.371	21.984	3.689
5/29/2005 8:00	28.236	38.677	31.145	45.609	28.214	4.396	22.009	3.71
5/29/2005 12:00	28.238	38.688	31.171	45.595	28.238	4.435	22.023	3.731
5/29/2005 16:00	28.263	38.699	31.181	45.558	28.333	4.431	22.033	3.769
5/29/2005 20:00	28.273	38.705	31.239	45.582	28.316	4.43	22.054	3.803
5/30/2005 0:00	28.3	38.716	31.312	45.577	28.3	4.425	22.077	3.818
5/30/2005 4:00	28.325	38.705	31.332	45.54	28.298	4.419	22.089	3.826
5/30/2005 8:00	28.352	38.729	31.388	45.563	28.313	4.409	22.102	3.841
5/30/2005 12:00	28.345	38.733	31.398	45.561	28.324	4.419	22.112	3.858
5/30/2005 16:00	28.355	38.737	31.4	45.547	28.365	4.421	22.122	3.883
5/30/2005 20:00	28.362	38.724	31.388	45.503	28.365	4.417	22.126	3.909
5/31/2005 0:00	28.37	38.741	31.412	45.494	28.365	4.417	22.135	3.918
5/31/2005 4:00	28.382	38.743	31.414	45.482	28.362	4.416	22.137	3.924
5/31/2005 8:00	28.397	38.76	31.436	45.496	28.386	4.421	22.153	3.935
5/31/2005 12:00	28.395	38.756	31.42	45.459	28.39	4.417	22.152	3.95
5/31/2005 16:00	28.367	38.735	31.38	45.445	28.425	4.416	22.153	3.979
5/31/2005 20:00	28.367	38.739	31.44	45.468	28.399	4.377	22.172	3.993
6/1/2005 0:00	28.323	38.739	31.489	45.461	28.108	4.4	22.079	3.997
6/1/2005 4:00	28.243	38.639	31.475	45.45	27.945	4.38	22.032	3.994
6/1/2005 8:00	28.213	38.566	31.496	45.413	27.871	4.361	22.025	3.997
6/1/2005 12:00	28.127	38.513	31.516	45.406	27.798	4.363	22.036	4
6/1/2005 16:00	28.134	38.434	31.478	45.394	27.727	4.376	22.044	4.007
6/1/2005 20:00	28.122	38.384	31.482	45.404	27.686	4.37	22.057	4.024
6/2/2005 0:00	28.109	38.359	31.5	45.399	27.663	4.388	22.073	4.025
6/2/2005 4:00	28.102	38.318	31.496	45.387	27.643	4.397	22.079	4.023
6/2/2005 8:00	28.104	38.314	31.52	45.348	27.647	4.384	22.09	4.021
6/2/2005 12:00	28.119	38.361	31.551	45.367	27.691	4.39	22.1	4.04
6/2/2005 16:00	28.084	38.272	31.462	45.353	27.669	4.374	22.083	4.043
6/2/2005 20:00	28.079	38.261	31.466	45.341	27.673	4.362	22.092	4.06
6/3/2005 0:00	28.082	38.252	31.472	45.3	27.671	4.356	22.096	4.055
6/3/2005 4:00	28.072	38.214	31.438	45.284	27.663	4.345	22.088	4.049

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
6/3/2005 8:00	27.942	38.165	31.49	45.307	27.245	4.23	22.096	3.994
6/3/2005 12:00	27.238	37.9	31.414	45.29	26.808	4.112	21.411	3.842
6/3/2005 16:00	26.766	37.701	31.398	45.279	26.616	4.195	20.868	3.611
6/3/2005 20:00	26.456	37.567	31.362	45.27	26.45	4.227	20.729	3.392
6/4/2005 0:00	26.267	37.446	31.275	45.221	26.325	4.205	20.606	3.175
6/4/2005 4:00	26.051	37.277	31.177	45.21	26.073	4.081	20.568	2.967
6/4/2005 8:00	25.685	37.102	31.046	45.191	25.817	3.879	19.977	2.612
6/4/2005 12:00	25.452	36.993	30.923	45.212	25.735	3.983	19.851	2.231
6/4/2005 16:00	25.192	36.828	30.688	45.166	25.647	4.003	19.789	1.925
6/4/2005 20:00	24.059	36.455	29.8	45.175	24.773	2.003	18.898	-0.109
6/5/2005 0:00	23.775	36.171	25.248	45.161	24.421	2.314	18.199	-0.168
6/5/2005 4:00	23.518	35.934	23.798	45.143	24.325	2.856	18.241	-0.193
6/5/2005 8:00	23.363	35.783	23.471	45.094	24.269	3.185	18.282	-0.165
6/5/2005 12:00	23.262	35.633	23.207	45.082	24.226	3.463	18.295	-0.097
6/5/2005 16:00	23.176	35.51	22.817	45.092	24.179	3.626	18.27	-0.041
6/5/2005 20:00	23.127	35.384	22.326	45.057	24.13	3.7	18.249	0.024
6/6/2005 0:00	23.102	35.283	21.881	45.032	24.093	3.753	18.247	0.068
6/6/2005 4:00	23.075	35.187	21.481	45.004	24.052	3.782	18.234	0.106
6/6/2005 8:00	23.065	35.102	21.159	44.939	24.005	3.778	18.224	0.141
6/6/2005 12:00	23.036	35.012	20.852	44.925	23.955	3.794	18.212	0.186
6/6/2005 16:00	23.008	34.897	20.459	44.877	23.891	3.789	18.176	0.228
6/6/2005 20:00	22.983	34.792	20.091	44.831	23.82	3.767	18.149	0.263
6/7/2005 0:00	23.023	34.743	19.924	44.787	23.796	3.784	18.174	0.301
6/7/2005 4:00	23.008	34.645	19.709	44.706	23.743	3.783	18.139	0.31
6/7/2005 8:00	23.031	34.581	19.538	44.683	23.717	3.766	18.145	0.344
6/7/2005 12:00	23.06	34.532	19.421	44.634	23.702	3.761	18.166	0.393
6/7/2005 16:00	23.055	34.453	19.25	44.574	23.713	3.762	18.143	0.433
6/7/2005 20:00	23.078	34.378	19.133	44.514	23.659	3.761	18.153	0.477
6/8/2005 0:00	23.12	34.346	19.067	44.468	23.652	3.763	18.176	0.504
6/8/2005 4:00	23.113	34.271	18.926	44.412	23.611	3.772	18.159	0.512
6/8/2005 8:00	23.13	34.214	18.872	44.322	23.59	3.788	18.171	0.541
6/8/2005 12:00	23.194	34.199	18.876	44.274	23.599	3.782	18.219	0.611
6/8/2005 16:00	23.225	34.148	18.849	44.241	23.669	3.792	18.238	0.668
6/8/2005 20:00	23.264	34.116	18.876	44.186	23.628	3.794	18.283	0.723
6/9/2005 0:00	23.331	34.094	18.9	44.11	23.621	3.797	18.293	0.748
6/9/2005 4:00	23.371	34.064	18.97	44.059	23.617	3.812	18.343	0.779
6/9/2005 8:00	23.388	34.03	19.018	44.034	23.617	3.819	18.353	0.8
6/9/2005 12:00	23.478	34.009	19.08	43.953	23.62	3.827	18.395	0.842
6/9/2005 16:00	23.5	33.971	19.13	43.932		3.795	18.406	0.846
6/9/2005 20:00	23.49	33.853	19.046	43.83		3.809	18.342	0.838
6/10/2005 0:00	23.513	33.857	19.221	43.814		3.792	18.445	0.907
6/10/2005 4:00	23.436	33.761	19.152	43.754		3.712	17.961	0.671
6/10/2005 8:00	22.975	33.64	18.69	43.659		2.95	17.567	0.098
6/10/2005 12:00	22.738	33.531	18.359	43.602		3.06	17.274	0.187
6/10/2005 16:00	22.524	33.362	18.125	43.56		3.238	17.199	0.208
6/10/2005 20:00	22.425	33.294	18.147	43.5		3.358	17.266	0.287
6/11/2005 0:00	22.368	33.196	18.127	43.405		3.471	17.243	0.307
6/11/2005 4:00	21.646	33.076	18.107	43.338		2.239	17.199	0.285
6/11/2005 8:00	21.431	32.899	15.826	43.303		1.699	16.116	-0.201
6/11/2005 12:00	21.163	32.716	15.671	43.236		2.083	15.953	-0.204
6/11/2005 16:00	20.99	32.502	15.528	43.165		2.501	15.785	-0.212

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
6/11/2005 20:00	20.907	32.338	15.458	43.068		2.789	15.796	-0.099
6/12/2005 0:00	20.858	32.195	15.416	43.04		2.992	15.799	-0.069
6/12/2005 4:00	20.842	32.014	15.367	42.962		3.13	15.766	-0.056
6/12/2005 8:00	20.822	31.877	15.335	42.897		3.212	15.75	-0.054
6/12/2005 12:00	20.553	31.647	15.186	42.788		2.843	15.152	-0.074
6/12/2005 16:00	20.459	31.444	15.063	42.747		2.968	15.129	-0.098
6/12/2005 20:00	20.344	31.235	14.961	42.64		3.034	15.065	-0.108
6/13/2005 0:00	20.283	31.054	14.886	42.592		3.075	14.967	-0.102
6/13/2005 4:00	20.218	30.877	14.796	42.513		3.102	14.887	-0.071
6/13/2005 8:00	20.199	30.764	14.794	42.444		3.12	14.922	-0.068
6/13/2005 12:00	20.214	30.625	14.763	42.366		3.158	14.905	-0.035
6/13/2005 16:00	20.207	30.463	14.719	42.271		3.208	14.87	0.034
6/13/2005 20:00	20.244	30.33	14.711	42.178		3.187	14.899	0.093
6/14/2005 0:00	20.316	30.243	14.753	42.093		3.228	14.99	0.146
6/14/2005 4:00	20.381	30.134	14.779	42.001		3.257	15.046	0.18
6/14/2005 8:00	20.46	30.04	14.822	41.885		3.334	15.116	0.221
6/14/2005 12:00	20.498	29.929	14.84	41.825		3.323	15.136	0.261
6/14/2005 16:00	20.532	29.81	14.856	41.703		3.352	15.152	0.312
6/14/2005 20:00	20.572	29.693	14.872	41.626		3.342	15.154	0.352
6/15/2005 0:00	20.617	29.603	14.9	41.534		3.329	15.195	0.378
6/15/2005 4:00	20.642	29.509	14.928	41.432		3.35	15.219	0.395
6/15/2005 8:00	20.699	29.409	14.962	41.328		3.365	15.24	0.418
6/15/2005 12:00	20.724	29.32	14.982	41.204		3.364	15.25	0.456
6/15/2005 16:00	20.736	29.203	14.986	41.083		3.393	15.226	0.492
6/15/2005 20:00	20.753	29.096	14.997	40.986		3.387	15.211	0.516
6/16/2005 0:00	20.783	29.015	15.035	40.827		3.379	15.234	0.537
6/16/2005 4:00	20.826	28.94	15.075	40.746		3.377	15.26	0.552
6/16/2005 8:00	20.871	28.881	15.119	40.651		3.363	15.294	0.573
6/16/2005 12:00	20.868	28.772	15.135	40.518		3.361	15.269	0.594
6/16/2005 16:00	20.886	28.674	15.151	40.414		3.363	15.256	0.633
6/16/2005 20:00	20.888	28.59	15.177	40.344		3.363	15.252	0.654
6/17/2005 0:00	20.938	28.533	15.219	40.25		3.387	15.271	0.671
6/17/2005 4:00	20.959	28.477	15.25	40.162		3.395	15.279	0.68
6/17/2005 8:00	20.997	28.454	15.302	40.086		3.381	15.323	0.704
6/17/2005 12:00	21.042	28.409	15.338	40.002		3.408	15.345	0.75
6/17/2005 16:00	21.054	28.33	15.358	39.875		3.391	15.341	0.799
6/17/2005 20:00	21.087	28.279	15.392	39.783		3.394	15.354	0.84
6/18/2005 0:00	21.126	28.273	15.445	39.679		3.398	15.401	0.857
6/18/2005 4:00	21.156	28.222	15.481	39.566		3.398	15.405	0.864
6/18/2005 8:00	21.203	28.222	15.537	39.469		3.372	15.449	0.887
6/18/2005 12:00	21.235	28.2	15.575	39.312		3.416	15.471	0.932
6/18/2005 16:00	21.251	28.139	15.599	39.233		3.445	15.455	0.977
6/18/2005 20:00	21.256	28.113	15.636	39.042		3.449	15.478	1.022
6/19/2005 0:00	21.33	28.132	15.692	38.958		3.426	15.532	1.047
6/19/2005 4:00	21.372	28.128	15.738	38.852		3.42	15.552	1.054
6/19/2005 8:00	21.422	28.128	15.786	38.737		3.445	15.587	1.073
6/19/2005 12:00	21.444	28.125	15.905	38.716		3.999	15.59	1.12
6/19/2005 16:00	21.452	28.081	15.955	38.626		3.993	15.598	1.165
6/19/2005 20:00	21.491	28.09	16.024	38.536		3.987	15.631	1.212
6/20/2005 0:00	21.511	28.115	16.112	38.499		3.971	15.671	1.229
6/20/2005 4:00	21.561	28.107	16.229	38.466		3.965	15.68	1.232

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
6/20/2005 8:00	21.601	28.13	16.415	38.457		3.983	15.716	1.25
6/20/2005 12:00	21.626	28.132	16.558	38.42		3.999	15.726	1.293
6/20/2005 16:00	21.613	28.072	16.624	38.346		3.993	15.689	1.331
6/20/2005 20:00	21.656	28.09	16.797	38.296		4	15.741	1.39
6/21/2005 0:00	21.688	28.115	16.974	38.312		3.973	15.774	1.401
6/21/2005 4:00	21.686	28.077	17.08	38.293		3.964	15.745	1.397
6/21/2005 8:00	21.738	28.098	17.251	38.266		4.105	15.782	1.414
6/21/2005 12:00	21.678	28.043	17.322	38.176		4.113	15.767	1.444
6/21/2005 16:00	21.758	28.034	17.426	38.104		4.128	15.796	1.509
6/21/2005 20:00	21.768	28.019	17.488	38.083		4.115	15.792	1.546
6/22/2005 0:00	21.802	28.053	17.585	38.023		4.119	15.82	1.558
6/22/2005 4:00	21.825	28.066	17.663	37.986		4.117	15.832	1.562
6/22/2005 8:00	21.86	28.077	17.748	37.956		4.125	15.848	1.571
6/22/2005 12:00	21.87	28.119	17.805	37.887		4.142	15.859	1.619
6/22/2005 16:00	21.88	28.111	17.811	37.824		4.177	15.842	1.674
6/22/2005 20:00	21.882	28.122	17.85	37.725		4.167	15.851	1.726
6/23/2005 0:00	21.909	28.145	17.916	37.642		4.155	15.871	1.736
6/23/2005 4:00	21.921	28.139	17.964	37.561		4.157	15.871	1.738
6/23/2005 8:00	21.949	28.16	18.017	37.513		4.148	15.878	1.74
6/23/2005 12:00	21.946	28.149	18.037	37.487		4.169	15.871	1.787
6/23/2005 16:00	21.947	28.117	18.049	37.39		4.188	15.871	1.848
6/23/2005 20:00	21.954	28.098	18.078	37.295		4.165	15.879	1.897
6/24/2005 0:00	21.984	28.128	18.137	37.24		4.153	15.904	1.91
6/24/2005 4:00	22.006	28.145	18.185	37.178		4.165	15.909	1.91
6/24/2005 8:00	22.043	28.179	18.252	37.159		4.153	15.936	1.918
6/24/2005 12:00	22.058	28.198	18.292	37.092		4.146	15.954	1.969
6/24/2005 16:00	22.071	28.188	18.318	37.039		4.159	15.972	2.033
6/24/2005 20:00	22.088	28.203	18.354	36.965		4.173	15.987	2.082
6/25/2005 0:00	22.13	28.267	18.446	36.912		4.157	16.035	2.099
6/25/2005 4:00	22.133	28.277	18.48	36.907		4.159	16.031	2.09
6/25/2005 8:00	22.19	28.305	18.551	36.82		4.147	16.064	2.097
6/25/2005 12:00	22.212	28.333	18.607	36.792		4.159	16.094	2.143
6/25/2005 16:00	22.22	28.309	18.611	36.633		4.169	16.087	2.199
6/25/2005 20:00	22.222	28.309	18.635	36.538		4.165	16.103	2.237
6/26/2005 0:00	22.275	28.377	18.718	36.427		4.17	16.153	2.247
6/26/2005 4:00	22.289	28.392	18.756	36.346		4.165	16.15	2.239
6/26/2005 8:00	22.324	28.429	18.808	36.247		4.167	16.171	2.242
6/26/2005 12:00	22.331	28.431	18.848	36.182		4.165	16.182	2.284
6/26/2005 16:00	22.339	28.424	18.856	36.111		4.174	16.188	2.341
6/26/2005 20:00	22.352	28.435	18.89	36.002		4.181	16.211	2.384
6/27/2005 0:00	22.389	28.482	18.969	35.903		4.17	16.246	2.388
6/27/2005 4:00	22.414	28.493	19.027	35.871		4.192	16.252	2.38
6/27/2005 8:00	22.421	28.507	19.077	35.82		4.188	16.258	2.376
6/27/2005 12:00	22.443	28.488	19.101	35.753		4.182	16.262	2.416
6/27/2005 16:00	22.453	28.486	19.103	35.633		4.209	16.269	2.471
6/27/2005 20:00	22.476	28.488	19.143	35.499		4.2	16.308	2.521
6/28/2005 0:00	22.5	28.516	19.21	35.49		4.196	16.339	2.518
6/28/2005 4:00	22.535	28.533	19.262	35.441		4.186	16.356	2.516
6/28/2005 8:00	22.555	28.527	19.286	35.404		4.186	16.337	2.493
6/28/2005 12:00	22.548	28.543	19.318	35.404		4.2	16.341	2.521
6/28/2005 16:00	22.562	28.544	19.316	35.282		4.231	16.356	2.568

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
6/28/2005 20:00	22.58	28.569	19.35	35.238		4.23	16.385	2.602
6/29/2005 0:00	22.6	28.61	19.403	35.212		4.201	16.411	2.599
6/29/2005 4:00	22.582	28.618	19.401	35.178		4.2	16.372	2.578
6/29/2005 8:00	22.62	28.631	19.427	35.079		4.192	16.36	2.576
6/29/2005 12:00	22.624	28.653	19.461	35.056		4.211	16.384	2.61
6/29/2005 16:00	22.627	28.674	19.469	34.998		4.222	16.395	2.659
6/29/2005 20:00	22.657	28.712	19.503	34.922		4.213	16.418	2.689
6/30/2005 0:00	22.711	28.84	19.624	34.949		4.199	16.509	2.7
6/30/2005 4:00	22.736	28.874	19.682	34.963		4.19	16.523	2.683
6/30/2005 8:00	22.756	28.942	19.749	35.007		4.197	16.548	2.681
6/30/2005 12:00	22.758	28.962	19.773	35.026		4.199	16.521	2.662
6/30/2005 16:00	22.768	28.966	19.775	34.982		4.196	16.511	2.658
6/30/2005 20:00	22.776	28.981	19.792	34.894		4.192	16.509	2.666
7/1/2005 0:00	22.811	29.028	19.859	34.94		4.188	16.55	2.662
7/1/2005 4:00	22.82	29.058	19.891	34.917		4.186	16.548	2.649
7/1/2005 8:00	22.858	29.12	19.974	34.938		4.186	16.6	2.656
7/1/2005 12:00	22.878	29.156	20.024	34.966		4.191	16.633	2.681
7/1/2005 16:00	22.86	29.132	19.99	34.88		4.221	16.591	2.713
7/1/2005 20:00	22.868	29.158	20.018	34.862		4.228	16.608	2.745
7/2/2005 0:00	22.88	29.196	20.066	34.841		4.207	16.616	2.741
7/2/2005 4:00	22.883	29.222	20.09	34.813		4.192	16.616	2.73
7/2/2005 8:00	22.892	29.256	20.143	34.769		4.219	16.631	2.728
7/2/2005 12:00	22.9	29.261	20.155	34.76		4.209	16.618	2.747
7/2/2005 16:00	22.902	29.252	20.141	34.718		4.205	16.602	2.787
7/2/2005 20:00	22.907	29.267	20.163	34.635		4.222	16.608	2.815
7/3/2005 0:00	22.912	29.307	20.217	34.654		4.224	16.623	2.811
7/3/2005 4:00	22.912	29.288	20.207	34.575		4.199	16.567	2.79
7/3/2005 8:00	22.907	29.312	20.235	34.529		4.197	16.552	2.779
7/3/2005 12:00	22.952	29.361	20.326	34.541		4.223	16.61	2.811
7/3/2005 16:00	22.959	29.382	20.37	34.515		4.228	16.637	2.847
7/3/2005 20:00	22.992	29.421	20.442	34.561		4.209	16.671	2.86
7/4/2005 0:00	23.051	29.5	20.563	34.608		4.23	16.739	2.864
7/4/2005 4:00	23.076	29.523	20.601	34.61		4.213	16.718	2.85
7/4/2005 8:00	23.126	29.589	20.728	34.688		4.207	16.792	2.858
7/4/2005 12:00	23.146	29.617	20.79	34.705		4.224	16.805	2.871
7/4/2005 16:00	23.163	29.66	20.85	34.753		4.24	16.834	2.913
7/4/2005 20:00	23.213	29.713	20.941	34.772		4.244	16.89	2.945
7/5/2005 0:00	23.242	29.77	21.043	34.815		4.248	16.919	2.943
7/5/2005 4:00	23.247	29.77	21.082	34.809		4.23	16.89	2.926
7/5/2005 8:00	23.28	29.805	21.176	34.813		4.228	16.919	2.924
7/5/2005 12:00	23.299	29.845	21.268	34.825		4.251	16.962	2.964
7/5/2005 16:00	23.299	29.815	21.274	34.802		4.247	16.946	3.003
7/5/2005 20:00	23.309	29.839	21.303	34.751		4.242	16.944	3.024
7/6/2005 0:00	23.327	29.873	21.387	34.746		4.254	16.962	3.015
7/6/2005 4:00	23.334	29.869	21.421	34.723		4.257	16.94	3.005
7/6/2005 8:00	23.364	29.896	21.497	34.695		4.242	16.95	3.001
7/6/2005 12:00	23.376	29.917	21.578	34.725		4.254	16.979	3.018
7/6/2005 16:00	23.371	29.93	21.586	34.714		4.271	16.971	3.062
7/6/2005 20:00	23.396	29.975	21.632	34.679		4.261	16.979	3.091
7/7/2005 0:00	23.419	30.02	21.743	34.675		4.255	17.02	3.087
7/7/2005 4:00	23.419	30.02	21.775	34.695		4.244	16.991	3.068

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
7/7/2005 8:00	23.451	30.058	21.865	34.712		4.23	17.017	3.064
7/7/2005 12:00	23.471	30.082	21.922	34.737		4.254	17.035	3.1
7/7/2005 16:00	23.463	30.076	21.94	34.665		4.279	17.039	3.142
7/7/2005 20:00	23.483	30.084	21.972	34.668		4.271	17.052	3.171
7/8/2005 0:00	23.515	30.135	22.08	34.675		4.269	17.097	3.167
7/8/2005 4:00	23.533	30.139	22.121	34.709		4.265	17.079	3.148
7/8/2005 8:00	23.562	30.195	22.227	34.753		4.281	17.114	3.146
7/8/2005 12:00	23.555	30.19	22.231	34.725		4.282	17.089	3.181
7/8/2005 16:00	23.56	30.208	22.271	34.712		4.296	17.118	3.228
7/8/2005 20:00	23.585	30.237	22.293	34.679		4.28	17.124	3.255
7/9/2005 0:00	23.61	30.303	22.392	34.679		4.274	17.155	3.249
7/9/2005 4:00	23.617	30.31	22.436	34.718		4.263	17.141	3.234
7/9/2005 8:00	23.649	30.357	22.526	34.737		4.259	17.17	3.232
7/9/2005 12:00	23.679	30.397	22.589	34.776		4.274	17.193	3.264
7/9/2005 16:00	23.667	30.378	22.573	34.7		4.296	17.18	3.308
7/9/2005 20:00	23.682	30.391	22.603	34.695		4.282	17.187	3.338
7/10/2005 0:00	23.721	30.463	22.711	34.737		4.267	17.24	3.332
7/10/2005 4:00	23.709	30.481	22.757	34.753		4.276	17.228	3.313
7/10/2005 8:00	23.763	30.523	22.834	34.744		4.283	17.245	3.304
7/10/2005 12:00	23.771	30.536	22.876	34.792		4.292	17.253	3.336
7/10/2005 16:00	23.763	30.545	22.886	34.765		4.308	17.265	3.381
7/10/2005 20:00	23.771	30.557	22.91	34.723		4.296	17.273	3.406
7/11/2005 0:00	23.801	30.581	22.971	34.73		4.294	17.278	3.393
7/11/2005 4:00	23.818	30.577	23.015	34.746		4.296	17.271	3.377
7/11/2005 8:00	23.853	30.606	23.114	34.781		4.284	17.309	3.368
7/11/2005 12:00	23.858	30.591	23.142	34.767		4.288	17.311	3.396
7/11/2005 16:00	23.865	30.583	23.156	34.748		4.319	17.327	3.44
7/11/2005 20:00	23.89	30.57	23.198	34.774		4.298	17.357	3.47
7/12/2005 0:00	23.907	30.585	23.278	34.811		4.284	17.381	3.457
7/12/2005 4:00	23.94	30.6	23.337	34.806		4.296	17.387	3.445
7/12/2005 8:00	23.969	30.632	23.419	34.882		4.29	17.412	3.432
7/12/2005 12:00	23.984	30.645	23.445	34.906		4.317	17.422	3.451
7/12/2005 16:00	23.992	30.647	23.439	34.88		4.327	17.431	3.502
7/12/2005 20:00	23.942	30.653	23.475	34.889		4.263	17.321	3.483
7/13/2005 0:00	23.95	30.67	23.538	34.892		4.274	17.35	3.468
7/13/2005 4:00	23.937	30.673	23.562	34.931		4.274	17.352	3.452
7/13/2005 8:00	23.947	30.69	23.616	34.947		4.271	17.369	3.441
7/13/2005 12:00	23.947	30.696	23.648	34.956		4.313	17.384	3.464
7/13/2005 16:00	23.93	30.685	23.636	34.926		4.3	17.384	3.503
7/13/2005 20:00	23.895	30.683	23.624	34.882		4.319	17.381	3.522
7/14/2005 0:00	23.909	30.717	23.68	34.873		4.29	17.39	3.511
7/14/2005 4:00	23.902	30.728	23.698	34.896		4.273	17.384	3.494
7/14/2005 8:00	23.922	30.769	23.757	34.924		4.296	17.406	3.482
7/14/2005 12:00	23.924	30.777	23.787	34.926		4.306	17.408	3.507
7/14/2005 16:00	23.917	30.783	23.781	34.901		4.321	17.413	3.547
7/14/2005 20:00	23.929	30.803	23.797	34.882		4.319	17.427	3.569
7/15/2005 0:00	23.964	30.856	23.879	34.889		4.299	17.468	3.556
7/15/2005 4:00	23.991	30.884	23.916	34.952		4.294	17.464	3.539
7/15/2005 8:00	23.996	30.929	23.988	34.993		4.292	17.491	3.529
7/15/2005 12:00	24.026	30.95	24.012	34.982		4.299	17.501	3.556
7/15/2005 16:00	24.026	30.941	23.994	34.989		4.315	17.501	3.594

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
7/15/2005 20:00	24.036	30.971	24.002	34.938		4.302	17.52	3.622
7/16/2005 0:00	24.068	31.025	24.069	34.968		4.302	17.543	3.61
7/16/2005 4:00	24.078	31.044	24.084	34.975		4.292	17.53	3.588
7/16/2005 8:00	24.103	31.082	24.133	34.998		4.293	17.545	3.578
7/16/2005 12:00	24.118	31.089	24.149	35.016		4.311	17.551	3.612
7/16/2005 16:00	24.096	31.089	24.113	35.023		4.323	17.547	3.652
7/16/2005 20:00	24.106	31.103	24.105	34.972		4.325	17.555	3.68
7/17/2005 0:00	24.125	31.14	24.153	34.966		4.315	17.572	3.669
7/17/2005 4:00	24.11	31.153	24.151	34.966		4.315	17.549	3.648
7/17/2005 8:00	24.158	31.182	24.203	34.972		4.302	17.57	3.637
7/17/2005 12:00	24.17	31.197	24.203	34.977		4.311	17.566	3.669
7/17/2005 16:00	24.163	31.195	24.179	34.947		4.337	17.574	3.712
7/17/2005 20:00	24.185	31.204	24.177	34.922		4.311	17.584	3.735
7/18/2005 0:00	24.212	31.24	24.231	34.931		4.319	17.607	3.725
7/18/2005 4:00	24.143	31.266	24.368	35.053		4.24	17.162	3.644
7/18/2005 8:00	24.001	31.219	24.398	35.088		4.259	16.914	3.587
7/18/2005 12:00	23.892	31.148	24.376	35.139		4.249	16.927	3.57
7/18/2005 16:00	23.805	31.093	24.34	35.15		4.269	17.021	3.601
7/18/2005 20:00	23.76	31.058	24.332	35.134		4.267	17.098	3.629
7/19/2005 0:00	23.74	31.056	24.36	35.169		4.28	17.168	3.614
7/19/2005 4:00	23.717	31.048	24.372	35.185		4.249	17.2	3.595
7/19/2005 8:00	23.7	31.054	24.394	35.199		4.278	17.224	3.578
7/19/2005 12:00	23.7	31.059	24.41	35.213		4.28	17.241	3.576
7/19/2005 16:00	23.658	31.016	24.337	35.111		4.296	17.2	3.589
7/19/2005 20:00	23.668	31.022	24.338	35.109		4.276	17.225	3.606
7/20/2005 0:00	23.678	31.039	24.365	35.116		4.274	17.245	3.589
7/20/2005 4:00	23.678	31.031	24.348	35.09		4.274	17.229	3.568
7/20/2005 8:00	23.693	31.056	24.376	35.095		4.276	17.251	3.558
7/20/2005 12:00	23.702	31.084	24.402	35.093		4.292	17.283	3.589
7/20/2005 16:00	23.7	31.073	24.376	35.111		4.294	17.293	3.628
7/20/2005 20:00	23.72	31.095	24.392	35.1		4.292	17.332	3.66
7/21/2005 0:00	23.774	31.139	24.458	35.127		4.273	17.373	3.649
7/21/2005 4:00	23.812	31.182	24.524	35.187		4.278	17.417	3.643
7/21/2005 8:00	23.814	31.206	24.547	35.233		4.284	17.419	3.624
7/21/2005 12:00	23.862	31.227	24.557	35.254		4.288	17.427	3.641
7/21/2005 16:00	23.881	31.255	24.579	35.275		4.313	17.465	3.679
7/21/2005 20:00	23.899	31.259	24.565	35.257		4.294	17.46	3.692
7/22/2005 0:00	23.933	31.308	24.625	35.268		4.29	17.5	3.681
7/22/2005 4:00	23.948	31.323	24.633	35.312		4.296	17.483	3.66
7/22/2005 8:00	23.976	31.366	24.683	35.349		4.29	17.506	3.643
7/22/2005 12:00	24.01	31.396	24.713	35.363		4.313	17.543	3.66
7/22/2005 16:00	23.991	31.394	24.681	35.358		4.335	17.535	3.694
7/22/2005 20:00	24.025	31.404	24.679	35.31		4.323	17.558	3.726
7/23/2005 0:00	24.058	31.451	24.72	35.365		4.319	17.579	3.718
7/23/2005 4:00	24.072	31.47	24.725	35.36		4.315	17.568	3.696
7/23/2005 8:00	24.1	31.496	24.742	35.367		4.309	17.574	3.686
7/23/2005 12:00	24.118	31.528	24.768	35.393		4.311	17.607	3.735
7/23/2005 16:00	24.127	31.543	24.716	35.351		4.315	17.597	3.777
7/23/2005 20:00	24.14	31.57	24.718	35.326		4.305	17.624	3.805
7/24/2005 0:00	24.174	31.617	24.768	35.351		4.303	17.649	3.794
7/24/2005 4:00	24.189	31.643	24.794	35.354		4.296	17.647	3.775

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
7/24/2005 8:00	24.227	31.669	24.838	35.414		4.313	17.665	3.767
7/24/2005 12:00	24.247	31.666	24.836	35.39		4.319	17.669	3.807
7/24/2005 16:00	24.247	31.671	24.814	35.367		4.317	17.682	3.85
7/24/2005 20:00	24.261	31.679	24.804	35.379		4.323	17.682	3.875
7/25/2005 0:00	24.286	31.739	24.85	35.407		4.306	17.715	3.858
7/25/2005 4:00	24.289	31.75	24.834	35.39		4.299	17.684	3.839
7/25/2005 8:00	24.309	31.782	24.852	35.393		4.302	17.686	3.829
7/25/2005 12:00	24.299	31.788	24.832	35.335		4.311	17.676	3.865
7/25/2005 16:00	24.296	31.769	24.806	35.31		4.335	17.691	3.912
7/25/2005 20:00	24.323	31.743	24.768	35.261		4.331	17.684	3.931
7/26/2005 0:00	24.343	31.807	24.872	35.337		4.311	17.744	3.918
7/26/2005 4:00	24.008	31.745	24.78	35.388		3.931	16.889	3.576
7/26/2005 8:00	23.525	31.585	24.723	35.393		3.587	16.046	3.338
7/26/2005 12:00	23.159	31.447	24.464	35.434		3.191	15.456	3.074
7/26/2005 16:00	23.025	31.323	24.083	35.557		3.427	15.398	3.057
7/26/2005 20:00	22.933	31.21	23.798	35.624		3.689	15.696	3.093
7/27/2005 0:00	22.869	31.124	23.599	35.684		3.87	15.957	3.115
7/27/2005 4:00	22.817	31.035	23.41	35.698		3.993	16.118	3.123
7/27/2005 8:00	22.79	30.969	23.255	35.758		4.055	16.246	3.127
7/27/2005 12:00	22.738	30.892	23.07	35.76		4.109	16.313	3.151
7/27/2005 16:00	22.718	30.806	22.851	35.693		4.144	16.342	3.183
7/27/2005 20:00	22.703	30.755	22.67	35.628		4.166	16.385	3.206
7/28/2005 0:00	22.716	30.738	22.561	35.64		4.17	16.441	3.204
7/28/2005 4:00	22.723	30.708	22.421	35.624		4.183	16.47	3.19
7/28/2005 8:00	22.738	30.706	22.334	35.626		4.179	16.52	3.181
7/28/2005 12:00	22.756	30.682	22.218	35.584		4.205	16.54	3.207
7/28/2005 16:00	22.765	30.646	22.079	35.561		4.214	16.542	3.243
7/28/2005 20:00	22.773	30.634	21.988	35.49		4.193	16.567	3.264
7/29/2005 0:00	22.8	30.644	21.956	35.515		4.203	16.598	3.254
7/29/2005 4:00	22.798	30.627	21.886	35.464		4.181	16.598	3.228
7/29/2005 8:00	22.882	30.679	21.956	35.506		4.183	16.689	3.232
7/29/2005 12:00	22.883	30.687	21.944	35.548		4.205	16.704	3.247
7/29/2005 16:00	22.917	30.642	21.851	35.497		4.199	16.676	3.288
7/29/2005 20:00	22.92	30.655	21.849	35.462		4.212	16.708	3.309
7/30/2005 0:00	22.96	30.681	21.897	35.504		4.198	16.745	3.294
7/30/2005 4:00	22.979	30.689	21.928	35.501		4.2	16.757	3.28
7/30/2005 8:00	23.007	30.708	21.982	35.501		4.216	16.78	3.271
7/30/2005 12:00	23.027	30.721	22.03	35.483		4.222	16.793	3.294
7/30/2005 16:00	23.027	30.696	22.012	35.446		4.226	16.776	3.339
7/30/2005 20:00	23.046	30.694	22.036	35.395		4.226	16.78	3.36
7/31/2005 0:00	23.076	30.732	22.14	35.37		4.218	16.824	3.352
7/31/2005 4:00	23.091	30.738	22.191	35.397		4.212	16.813	3.333
7/31/2005 8:00	23.118	30.766	22.277	35.39		4.22	16.84	3.322
7/31/2005 12:00	23.131	30.764	22.334	35.37		4.222	16.822	3.339
7/31/2005 16:00	23.128	30.743	22.351	35.28		4.231	16.801	3.378
7/31/2005 20:00	23.151	30.768	22.438	35.257		4.247	16.83	3.405
8/1/2005 0:00	23.185	30.796	22.551	35.259		4.234	16.855	3.395
8/1/2005 4:00	23.208	30.817	22.639	35.227		4.24	16.863	3.38
8/1/2005 8:00	23.243	30.847	22.735	35.268		4.232	16.88	3.369
8/1/2005 12:00	23.253	30.849	22.791	35.257		4.245	16.879	3.399
8/1/2005 16:00	23.263	30.858	22.84	35.22		4.238	16.898	3.44

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/1/2005 20:00	23.278	30.86	22.874	35.148		4.245	16.892	3.455
8/2/2005 0:00	23.297	30.9	22.98	35.164		4.23	16.923	3.446
8/2/2005 4:00	23.33	30.913	23.048	35.19		4.234	16.927	3.435
8/2/2005 8:00	23.37	30.937	23.135	35.176		4.241	16.946	3.429
8/2/2005 12:00	23.382	30.937	23.187	35.215		4.256	16.954	3.459
8/2/2005 16:00	23.379	30.903	23.181	35.157		4.257	16.942	3.499
8/2/2005 20:00	23.397	30.909	23.219	35.127		4.259	16.954	3.514
8/3/2005 0:00	23.429	30.937	23.3	35.12		4.252	16.981	3.512
8/3/2005 4:00	23.452	30.958	23.368	35.136		4.246	16.987	3.499
8/3/2005 8:00	23.501	31.003	23.471	35.157		4.256	17.033	3.498
8/3/2005 12:00	23.511	31.007	23.501	35.192		4.275	17.039	3.523
8/3/2005 16:00	23.526	31.016	23.525	35.173		4.285	17.058	3.57
8/3/2005 20:00	23.548	31.033	23.557	35.155		4.289	17.08	3.597
8/4/2005 0:00	23.59	31.088	23.654	35.19		4.265	17.126	3.593
8/4/2005 4:00	23.655	31.154	23.78	35.238		4.269	17.188	3.591
8/4/2005 8:00	23.712	31.214	23.901	35.335		4.274	17.24	3.585
8/4/2005 12:00	23.759	31.248	23.981	35.427		4.29	17.273	3.602
8/4/2005 16:00	23.784	31.272	24.034	35.478		4.304	17.295	3.632
8/4/2005 20:00	23.824	31.312	24.112	35.508		4.3	17.35	3.662
8/5/2005 0:00	23.869	31.37	24.211	35.575		4.281	17.395	3.653
8/5/2005 4:00	23.891	31.376	24.217	35.561		4.306	17.37	3.632
8/5/2005 8:00	23.933	31.423	24.291	35.631		4.29	17.403	3.626
8/5/2005 12:00	23.946	31.442	24.321	35.654		4.294	17.405	3.64
8/5/2005 16:00	23.936	31.427	24.291	35.612		4.313	17.391	3.675
8/5/2005 20:00	23.941	31.415	24.261	35.527		4.292	17.368	3.694
8/6/2005 0:00	23.973	31.453	24.325	35.561		4.287	17.401	3.685
8/6/2005 4:00	23.965	31.447	24.327	35.55		4.29	17.38	3.666
8/6/2005 8:00	23.993	31.47	24.365	35.55		4.292	17.393	3.658
8/6/2005 12:00	23.973	31.474	24.367	35.548		4.283	17.385	3.677
8/6/2005 16:00	23.98	31.453	24.313	35.483		4.298	17.362	3.713
8/6/2005 20:00	23.99	31.464	24.315	35.425		4.314	17.374	3.741
8/7/2005 0:00	24.02	31.509	24.375	35.418		4.298	17.401	3.73
8/7/2005 4:00	24.025	31.517	24.379	35.411		4.31	17.382	3.711
8/7/2005 8:00	24.053	31.562	24.44	35.43		4.285	17.414	3.707
8/7/2005 12:00	24.072	31.583	24.466	35.476		4.302	17.428	3.737
8/7/2005 16:00	24.068	31.575	24.434	35.439		4.337	17.416	3.777
8/7/2005 20:00	24.087	31.596	24.452	35.409		4.331	17.444	3.792
8/8/2005 0:00	24.12	31.645	24.522	35.42		4.31	17.477	3.786
8/8/2005 4:00	24.137	31.662	24.54	35.453		4.314	17.459	3.771
8/8/2005 8:00	24.157	31.688	24.57	35.467		4.294	17.472	3.761
8/8/2005 12:00	24.184	31.741	24.619	35.499		4.304	17.5	3.778
8/8/2005 16:00	24.189	31.735	24.588	35.467		4.308	17.494	3.814
8/8/2005 20:00	24.194	31.745	24.592	35.444		4.297	17.505	3.825
8/9/2005 0:00	24.226	31.784	24.653	35.448		4.296	17.532	3.818
8/9/2005 4:00	24.238	31.797	24.665	35.474		4.294	17.525	3.808
8/9/2005 8:00	24.268	31.843	24.737	35.511		4.3	17.561	3.804
8/9/2005 12:00	24.286	31.854	24.749	35.534		4.302	17.571	3.842
8/9/2005 16:00	24.296	31.856	24.737	35.478		4.323	17.592	3.893
8/9/2005 20:00	24.313	31.871	24.733	35.453		4.341	17.608	3.921
8/10/2005 0:00	24.358	31.933	24.824	35.541		4.333	17.656	3.914
8/10/2005 4:00	24.383	31.95	24.85	35.538		4.306	17.656	3.902

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/10/2005 8:00	24.405	31.98	24.902	35.603		4.331	17.675	3.893
8/10/2005 12:00	24.427	31.993	24.93	35.638		4.355	17.697	3.938
8/10/2005 16:00	24.43	31.984	24.894	35.575		4.343	17.693	3.983
8/10/2005 20:00	24.442	31.995	24.9	35.55		4.351	17.718	4.004
8/11/2005 0:00	24.47	32.033	24.956	35.614		4.349	17.741	3.994
8/11/2005 4:00	24.484	32.048	24.972	35.594		4.347	17.724	3.981
8/11/2005 8:00	24.507	32.074	25.006	35.638		4.332	17.747	3.977
8/11/2005 12:00	24.512	32.082	25.001	35.608		4.345	17.737	4.002
8/11/2005 16:00	24.519	32.095	24.995	35.608		4.378	17.763	4.041
8/11/2005 20:00	24.514	32.106	24.989	35.582		4.336	17.755	4.041
8/12/2005 0:00	24.561	32.149	25.053	35.621		4.343	17.788	4.032
8/12/2005 4:00	24.586	32.189	25.105	35.661		4.345	17.803	4.022
8/12/2005 8:00	24.613	32.223	25.147	35.703		4.345	17.813	4.007
8/12/2005 12:00	24.651	32.277	25.218	35.716		4.349	17.852	4.011
8/12/2005 16:00	24.644	32.266	25.188	35.718		4.353	17.821	4.009
8/12/2005 20:00	24.661	32.283	25.2	35.742		4.345	17.832	4.013
8/13/2005 0:00	24.661	32.317	25.246	35.772		4.349	17.852	4.002
8/13/2005 4:00	24.579	32.296	25.236	35.765		4.299	17.687	3.971
8/13/2005 8:00	24.457	32.255	25.264	35.79		4.266	17.062	3.922
8/13/2005 12:00	24.244	32.183	25.276	35.829		4.066	16.907	3.854
8/13/2005 16:00	23.829	32.033	25.214	35.804		3.747	16.261	3.694
8/13/2005 20:00	23.725	31.939	25.22	35.875		3.784	16.303	3.648
8/14/2005 0:00	23.631	31.869	25.163	35.894		3.939	16.52	3.639
8/14/2005 4:00	23.557	31.805	25.013	35.912		4.06	16.64	3.633
8/14/2005 8:00	23.527	31.786	24.918	35.984		4.145	16.774	3.631
8/14/2005 12:00	23.495	31.76	24.792	36.028		4.17	16.863	3.639
8/14/2005 16:00	23.455	31.715	24.633	36.012		4.211	16.909	3.671
8/14/2005 20:00	23.463	31.687	24.503	36		4.237	16.954	3.693
8/15/2005 0:00	23.468	31.696	24.455	36.032		4.241	17.021	3.688
8/15/2005 4:00	23.488	31.687	24.388	36.053		4.247	17.056	3.669
8/15/2005 8:00	23.508	31.696	24.33	36.065		4.254	17.081	3.657
8/15/2005 12:00	23.51	31.707	24.268	36.046		4.253	17.106	3.665
8/15/2005 16:00	23.488	31.681	24.173	36.03		4.277	17.104	3.697
8/15/2005 20:00	23.527	31.685	24.145	36.009		4.258	17.134	3.718
8/16/2005 0:00	23.563	31.715	24.181	36.037		4.258	17.182	3.708
8/16/2005 4:00	23.58	31.717	24.181	36.037		4.253	17.19	3.691
8/16/2005 8:00	23.612	31.741	24.219	36.026		4.24	17.225	3.678
8/16/2005 12:00	23.61	31.758	24.237	36.046		4.27	17.238	3.68
8/16/2005 16:00	23.634	31.732	24.185	35.996		4.262	17.207	3.717
8/16/2005 20:00	23.642	31.734	24.189	35.993		4.272	17.236	3.734
8/17/2005 0:00	23.667	31.756	24.227	35.996		4.266	17.256	3.723
8/17/2005 4:00	23.664	31.741	24.217	35.966		4.245	17.232	3.702
8/17/2005 8:00	23.679	31.739	24.217	35.924		4.241	17.219	3.685
8/17/2005 12:00	23.659	31.726	24.21	35.857		4.266	17.199	3.683
8/17/2005 16:00	23.647	31.69	24.156	35.799		4.256	17.155	3.691
8/17/2005 20:00	23.644	31.67	24.142	35.742		4.235	17.136	3.689
8/18/2005 0:00	23.659	31.696	24.198	35.696		4.243	17.163	3.679
8/18/2005 4:00	23.667	31.702	24.234	35.681		4.221	17.174	3.675
8/18/2005 8:00	23.699	31.709	24.264	35.672		4.241	17.178	3.66
8/18/2005 12:00	23.714	31.73	24.319	35.695		4.245	17.213	3.69
8/18/2005 16:00	23.747	31.734	24.339	35.663		4.288	17.234	3.724

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/18/2005 20:00	23.776	31.751	24.377	35.698		4.263	17.263	3.749
8/19/2005 0:00	23.771	31.807	24.478	35.733		4.245	17.275	3.734
8/19/2005 4:00	23.552	31.764	24.503	35.776		3.494	16.481	3.649
8/19/2005 8:00	23.5	31.717	24.51	35.792		3.73	16.566	3.62
8/19/2005 12:00	23.44	31.67	24.457	35.834		3.925	16.655	3.624
8/19/2005 16:00	23.388	31.653	24.437	35.832		4.061	16.752	3.639
8/19/2005 20:00	22.884	31.651	24.468	35.903		3	16.762	3.584
8/20/2005 0:00	22.9	31.523	24.351	35.924		2.48	15.796	3.358
8/20/2005 4:00	22.81	31.397	24.156	35.961		3.049	15.87	3.316
8/20/2005 8:00	22.743	31.318	23.955	36.002		3.414	16.042	3.307
8/20/2005 12:00	22.718	31.254	23.779	36.056		3.657	16.169	3.318
8/20/2005 16:00	22.663	31.163	23.539	36.016		3.814	16.224	3.352
8/20/2005 20:00	22.636	31.107	23.36	35.984		3.952	16.309	3.375
8/21/2005 0:00	22.648	31.084	23.24	36.046		4.012	16.39	3.363
8/21/2005 4:00	22.671	31.045	23.101	36.044		4.059	16.427	3.348
8/21/2005 8:00	22.698	31.028	22.997	36.023		4.07	16.479	3.337
8/21/2005 12:00	22.713	31.006	22.896	36.03		4.086	16.514	3.35
8/21/2005 16:00	22.706	30.96	22.731	35.984		4.094	16.51	3.371
8/21/2005 20:00	22.701	30.926	22.613	35.947		4.109	16.52	3.382
8/22/2005 0:00	22.752	30.93	22.58	35.947		4.123	16.562	3.367
8/22/2005 4:00	22.763	30.909	22.504	35.915		4.107	16.561	3.346
8/22/2005 8:00	22.8	30.921	22.512	35.922		4.111	16.609	3.34
8/22/2005 12:00	22.825	30.926	22.506	35.929		4.141	16.634	3.346
8/22/2005 16:00	22.82	30.887	22.433	35.883		4.136	16.598	3.365
8/22/2005 20:00	22.837	30.879	22.419	35.806		4.15	16.623	3.359
8/23/2005 0:00	22.862	30.909	22.474	35.85		4.149	16.669	3.352
8/23/2005 4:00	22.897	30.904	22.492	35.843		4.158	16.675	3.338
8/23/2005 8:00	22.932	30.924	22.544	35.838		4.149	16.7	3.329
8/23/2005 12:00	22.949	30.938	22.6	35.85		4.166	16.723	3.34
8/23/2005 16:00	22.982	30.938	22.636	35.829		4.172	16.733	3.359
8/23/2005 20:00	23.004	30.949	22.682	35.822		4.166	16.745	3.357
8/24/2005 0:00	23.034	30.983	22.787	35.843		4.174	16.783	3.351
8/24/2005 4:00	23.053	30.99	22.857	35.829		4.16	16.796	3.343
8/24/2005 8:00	23.078	30.996	22.914	35.827		4.174	16.795	3.328
8/24/2005 12:00	23.108	31.013	22.994	35.795		4.187	16.814	3.33
8/24/2005 16:00	23.108	31.026	23.054	35.781		4.176	16.832	3.349
8/24/2005 20:00	23.148	31.028	23.104	35.76		4.18	16.828	3.34
8/25/2005 0:00	23.183	31.052	23.191	35.802		4.183	16.851	3.332
8/25/2005 4:00	23.202	31.067	23.261	35.767		4.168	16.865	3.324
8/25/2005 8:00	23.24	31.094	23.35	35.788		4.174	16.893	3.317
8/25/2005 12:00	23.255	31.116	23.428	35.834		4.277	16.911	3.332
8/25/2005 16:00	23.272	31.107	23.446	35.774		4.284	16.909	3.373
8/25/2005 20:00	23.297	31.124	23.49	35.742		4.302	16.923	3.392
8/26/2005 0:00	23.319	31.148	23.565	35.788		4.289	16.942	3.383
8/26/2005 4:00	23.28	31.096	23.508	35.719		4.188	16.863	3.356
8/26/2005 8:00	23.076	31.092	23.575	35.709		3.434	16.067	3.26
8/26/2005 12:00	22.991	31.058	23.619	35.728		3.679	16.071	3.237
8/26/2005 16:00	22.917	30.988	23.561	35.691		3.86	16.185	3.258
8/26/2005 20:00	22.884	30.951	23.538	35.663		4.03	16.278	3.284
8/27/2005 0:00	22.874	30.953	23.574	35.672		4.079	16.383	3.273
8/27/2005 4:00	22.867	30.934	23.556	35.714		4.163	16.431	3.254

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
8/27/2005 8:00	22.877	30.934	23.567	35.728		4.17	16.485	3.245
8/27/2005 12:00	22.869	30.915	23.548	35.705		4.192	16.51	3.26
8/27/2005 16:00	22.87	30.887	23.496	35.668		4.215	16.522	3.307
8/27/2005 20:00	22.889	30.885	23.492	35.64		4.244	16.556	3.339
8/28/2005 0:00	22.91	30.909	23.526	35.686		4.213	16.599	3.331
8/28/2005 4:00	22.927	30.906	23.525	35.659		4.244	16.611	3.314
8/28/2005 8:00	22.964	30.919	23.552	35.691		4.237	16.636	3.303
8/28/2005 12:00	23.004	30.949	23.607	35.693		4.264	16.685	3.314
8/28/2005 16:00	22.996	30.936	23.595	35.716		4.252	16.683	3.342
8/28/2005 20:00	23.009	30.938	23.607	35.721		4.274	16.615	3.346
8/29/2005 0:00	23.046	30.988	23.711	35.767		4.256	16.679	3.346
8/29/2005 4:00	23.044	30.977	23.719	35.758		4.278	16.684	3.331
8/29/2005 8:00	23.071	30.998	23.769	35.742		4.26	16.723	3.321
8/29/2005 12:00	23.076	31.005	23.8	35.758		4.274	16.741	3.333
8/29/2005 16:00	23.066	30.971	23.757	35.691		4.32	16.714	3.372
8/29/2005 20:00	23.086	30.966	23.761	35.682		4.326	16.727	3.391
8/30/2005 0:00	23.098	30.994	23.808	35.693		4.322	16.756	3.383
8/30/2005 4:00	23.113	30.998	23.82	35.67		4.32	16.756	3.366
8/30/2005 8:00	23.148	31.028	23.874	35.654		4.33	16.785	3.357
8/30/2005 12:00	23.163	31.041	23.902	35.665		4.328	16.8	3.372
8/30/2005 16:00	23.168	31.032	23.89	35.658		4.344	16.801	3.419
8/30/2005 20:00	23.202	31.049	23.922	35.645		4.289	16.834	3.443
8/31/2005 0:00	23.24	31.086	23.987	35.679		4.291	16.868	3.434
8/31/2005 4:00	23.272	31.109	24.041	35.707		4.274	16.897	3.421
8/31/2005 8:00	23.332	31.158	24.137	35.73		4.375	16.954	3.417
8/31/2005 12:00	23.362	31.188	24.178	35.769		4.388	16.976	3.445
8/31/2005 16:00	23.404	31.209	24.214	35.781		4.408	17.002	3.494
8/31/2005 20:00	23.426	31.256	24.282	35.822		4.389	17.06	3.52
9/1/2005 0:00	23.491	31.318	24.369	35.926		4.389	17.104	3.515
9/1/2005 4:00	23.528	31.363	24.427	35.982		4.4	17.135	3.507
9/1/2005 8:00	23.582	31.419	24.51	36.03		4.387	17.185	3.505
9/1/2005 12:00	23.607	31.444	24.552	36.079		4.4	17.207	3.522
9/1/2005 16:00	23.585	31.433	24.522	36.053		4.422	17.185	3.56
9/1/2005 20:00	23.637	31.453	24.54	36.039		4.412	17.213	3.584
9/2/2005 0:00	23.667	31.495	24.606	36.081		4.397	17.25	3.575
9/2/2005 4:00	23.704	31.54	24.678	36.099		4.387	17.292	3.573
9/2/2005 8:00	23.699	31.561	24.723	36.174		4.389	17.192	3.552
9/2/2005 12:00	23.672	31.561	24.771	36.185		4.378	16.994	3.548
9/2/2005 16:00	23.592	31.508	24.725	36.162		4.395	16.994	3.537
9/2/2005 20:00	23.585	31.48	24.725	36.139		4.383	17.029	3.554
9/3/2005 0:00	23.585	31.506	24.793	36.176		4.383	17.097	3.546
9/3/2005 4:00	23.575	31.506	24.815	36.19		4.383	17.12	3.531
9/3/2005 8:00	23.568	31.517	24.862	36.176		4.352	17.163	3.522
9/3/2005 12:00	23.508	31.487	24.851	36.206		4.312	16.69	3.508
9/3/2005 16:00	23.429	31.423	24.781	36.15		4.341	16.776	3.537
9/3/2005 20:00	23.404	31.389	24.755	36.058		4.333	16.841	3.552
9/4/2005 0:00	23.391	31.404	24.805	36.113		4.35	16.913	3.54
9/4/2005 4:00	23.357	31.397	24.819	36.113		4.337	16.944	3.523
9/4/2005 8:00	23.379	31.41	24.857	36.104		4.354	16.988	3.508
9/4/2005 12:00	23.381	31.421	24.869	36.123		4.372	17.014	3.521
9/4/2005 16:00	23.401	31.401	24.839	36.083		4.374	17.019	3.561

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/4/2005 20:00	23.419	31.427	24.855	36.097		4.374	17.058	3.587
9/5/2005 0:00	23.453	31.465	24.9	36.107		4.38	17.098	3.578
9/5/2005 4:00	23.461	31.476	24.908	36.123		4.366	17.108	3.563
9/5/2005 8:00	23.493	31.5	24.934	36.157		4.366	17.135	3.553
9/5/2005 12:00	23.508	31.523	24.956	36.153		4.396	17.162	3.583
9/5/2005 16:00	23.52	31.517	24.924	36.155		4.397	17.168	3.628
9/5/2005 20:00	23.55	31.529	24.932	36.136		4.397	17.193	3.647
9/6/2005 0:00	23.568	31.564	24.968	36.141		4.399	17.22	3.636
9/6/2005 4:00	23.597	31.579	24.978	36.164		4.376	17.228	3.623
9/6/2005 8:00	23.64	31.619	25.042	36.196		4.396	17.278	3.619
9/6/2005 12:00	23.677	31.662	25.097	36.236		4.39	17.317	3.634
9/6/2005 16:00	23.69	31.651	25.06	36.208		4.411	17.308	3.664
9/6/2005 20:00	23.714	31.677	25.089	36.226		4.39	17.339	3.671
9/7/2005 0:00	23.734	31.719	25.149	36.252		4.38	17.377	3.662
9/7/2005 4:00	23.766	31.722	25.143	36.261		4.398	17.36	3.645
9/7/2005 8:00	23.796	31.743	25.167	36.266		4.396	17.383	3.637
9/7/2005 12:00	23.809	31.76	25.181	36.277		4.411	17.387	3.637
9/7/2005 16:00	23.809	31.743	25.131	36.226		4.433	17.374	3.675
9/7/2005 20:00	23.826	31.758	25.133	36.224		4.394	17.393	3.696
9/8/2005 0:00	23.856	31.79	25.171	36.243		4.41	17.416	3.684
9/8/2005 4:00	23.868	31.792	25.161	36.199		4.411	17.401	3.667
9/8/2005 8:00	23.868	31.809	25.183	36.224		4.365	17.325	3.65
9/8/2005 12:00	23.848	31.794	25.165	36.201		4.381	17.246	3.665
9/8/2005 16:00	23.828	31.76	25.111	36.129		4.41	17.252	3.71
9/8/2005 20:00	23.824	31.758	25.113	36.12		4.41	17.274	3.716
9/9/2005 0:00	23.836	31.783	25.149	36.129		4.404	17.3	3.71
9/9/2005 4:00	23.853	31.803	25.175	36.143		4.391	17.329	3.701
9/9/2005 8:00	23.866	31.832	25.227	36.174		4.375	17.37	3.695
9/9/2005 12:00	23.879	31.862	25.245	36.203		4.381	17.385	3.72
9/9/2005 16:00	23.881	31.847	25.215	36.141		4.377	17.389	3.763
9/9/2005 20:00	23.903	31.86	25.227	36.157		4.385	17.414	3.785
9/10/2005 0:00	23.933	31.896	25.283	36.166		4.41	17.451	3.776
9/10/2005 4:00	23.945	31.911	25.296	36.206		4.41	17.453	3.757
9/10/2005 8:00	23.972	31.937	25.332	36.222		4.403	17.474	3.75
9/10/2005 12:00	23.995	31.952	25.344	36.247		4.387	17.474	3.778
9/10/2005 16:00	24.007	31.954	25.338	36.233		4.409	17.507	3.823
9/10/2005 20:00	24.029	31.975	25.358	36.233		4.407	17.536	3.844
9/11/2005 0:00	24.064	32.014	25.412	36.238		4.43	17.567	3.832
9/11/2005 4:00	24.089	32.039	25.442	36.291		4.414	17.582	3.821
9/11/2005 8:00	24.137	32.084	25.509	36.342		4.407	17.621	3.815
9/11/2005 12:00	24.154	32.103	25.535	36.388		4.426	17.641	3.836
9/11/2005 16:00	24.144	32.078	25.469	36.321		4.412	17.609	3.864
9/11/2005 20:00	24.174	32.095	25.483	36.326		4.428	17.637	3.881
9/12/2005 0:00	24.196	32.138	25.535	36.365		4.438	17.668	3.87
9/12/2005 4:00	24.209	32.146	25.527	36.36		4.416	17.654	3.858
9/12/2005 8:00	24.223	32.163	25.545	36.363		4.405	17.66	3.845
9/12/2005 12:00	24.171	32.161	25.521	36.342		4.417	17.645	3.856
9/12/2005 16:00	24.206	32.131	25.444	36.27		4.421		3.888
9/12/2005 20:00	24.233	32.148	25.456	36.21		4.428	17.665	3.907
9/13/2005 0:00	24.245	32.176	25.473	36.241		4.413	17.595	3.896
9/13/2005 4:00	24.248	32.187	25.477	36.233		4.397	17.561	3.888

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/13/2005 8:00		32.221	25.513	36.226		4.409	17.562	3.877
9/13/2005 12:00	24.34	32.251	25.545	36.252		4.438	17.67	3.888
9/13/2005 16:00	24.339	32.283		36.245		4.428	17.794	3.912
9/13/2005 20:00	24.36	32.327	25.798			4.438	17.747	3.924
9/14/2005 0:00	24.422	32.406	25.818			4.407	17.647	3.92
9/14/2005 4:00	24.455	32.445	25.853	37.132		4.424	17.67	3.909
9/14/2005 8:00	24.501	32.49	25.898	36.868			17.678	3.901
9/14/2005 12:00	24.511	32.511	25.934	36.835			17.761	3.918
9/14/2005 16:00	24.514	32.257	25.88	37.046		4.594	17.953	
9/14/2005 20:00	24.556	32.235	25.888	36.858		4.485	17.831	4.005
9/15/2005 0:00	24.558	32.243	25.926	36.775		4.485	17.751	3.961
9/15/2005 4:00	24.57	32.257	25.957	36.768		4.427	17.755	3.95
9/15/2005 8:00	24.616	32.272	25.995	36.719		4.406	17.784	3.943
9/15/2005 12:00	24.623	32.274	26.039	36.793		4.39	17.813	3.932
9/15/2005 16:00	24.638	32.253	26.021	36.767		4.369	17.815	3.936
9/15/2005 20:00	24.67	32.291	26.086	36.765		4.363	17.85	3.955
9/16/2005 0:00	24.71	32.325	26.146	36.848		4.355	17.804	3.944
9/16/2005 4:00	24.722	32.34	26.164	36.874		4.332	17.774	3.932
9/16/2005 8:00	24.769	32.387	26.232	36.878		4.361	17.931	3.929
9/16/2005 12:00	24.782	32.411	26.266	36.961		4.326	17.875	3.93
9/16/2005 16:00	24.745	32.377	26.196	36.887		4.334	17.941	3.957
9/16/2005 20:00	24.772	32.379	26.186	36.864		4.293	17.894	3.976
9/17/2005 0:00	24.789	32.402	26.212	36.862		4.253	17.902	3.968
9/17/2005 4:00	24.772	32.398	26.198	36.862		4.231	17.857	3.951
9/17/2005 8:00	24.787	32.409	26.196	36.832		4.223	17.836	3.938
9/17/2005 12:00	24.767	32.402	26.168	36.779		4.206	17.877	3.941
9/17/2005 16:00	24.757	32.366	26.09	36.73		4.212	17.987	3.968
9/17/2005 20:00	24.779	32.404	26.128	36.696		4.152	17.974	3.983
9/18/2005 0:00	24.807	32.438	26.172	36.709		4.14	17.91	3.979
9/18/2005 4:00	24.794	32.445	26.172	36.702		4.146	17.877	3.964
9/18/2005 8:00	24.829	32.47	26.2	36.679		4.105	17.885	3.958
9/18/2005 12:00	24.859	32.505	26.246	36.763		4.159	18.053	3.975
9/18/2005 16:00	24.844	32.494	26.208	36.714		4.156	18.186	4.005
9/18/2005 20:00	24.872	32.515	26.222	36.737		4.148	18.15	4.009
9/19/2005 0:00	24.906	32.537	26.246	36.735		4.142	18.167	4.001
9/19/2005 4:00	24.936	32.596	26.339	36.804		4.107	18.109	3.996
9/19/2005 8:00	24.981	32.658	26.436	36.848		4.117	18.086	3.998
9/19/2005 12:00	25.005	32.675	26.476	36.943		4.129	18.224	4.003
9/19/2005 16:00	25.02	32.673	26.474	36.957		4.146	18.342	4.031
9/19/2005 20:00	25.023	32.716	26.55	37.005		4.125	18.301	4.045
9/20/2005 0:00	25.087	32.765	26.635	37.077		4.133	18.173	4.043
9/20/2005 4:00	25.129	32.797	26.689	37.144		4.139	18.175	4.035
9/20/2005 8:00	25.157	32.816	26.731	37.187		4.129	18.179	4.028
9/20/2005 12:00	25.171	32.829	26.749	37.229		4.156	18.215	4.05
9/20/2005 16:00	25.137	32.799	26.689	37.157		4.158	18.539	4.09
9/20/2005 20:00	25.157	32.81	26.687	37.167		4.143	18.382	4.112
9/21/2005 0:00	25.184	32.833	26.715	37.148		4.154	18.421	4.101
9/21/2005 4:00	25.159	32.831	26.709	37.164		4.158	18.315	4.088
9/21/2005 8:00	25.172	32.818	26.679	37.137		4.168	18.275	4.069
9/21/2005 12:00	25.154	32.809	26.642	37.065		4.16	18.274	4.082
9/21/2005 16:00	25.109	32.773	26.562	37.021		4.18	18.612	4.123

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/21/2005 20:00	25.137	32.782	26.554	36.938		4.194	18.448	4.133
9/22/2005 0:00	25.125	32.795	26.562	36.957		4.184	18.32	4.125
9/22/2005 4:00	25.177	32.842	26.632	36.952		4.18	18.27	4.125
9/22/2005 8:00	25.214	32.882	26.695	36.993		4.196	18.395	4.121
9/22/2005 12:00	25.244	32.916	26.775	37.095		4.192	18.483	4.133
9/22/2005 16:00	25.269	32.923	26.785	37.123		4.19	18.68	4.176
9/22/2005 20:00	25.318	32.976	26.886	37.194		4.19	18.466	4.191
9/23/2005 0:00	25.353	33.01	26.944	37.266		4.232	18.512	4.185
9/23/2005 4:00	25.373	33.029	26.972	37.308		4.234	18.425	4.174
9/23/2005 8:00	25.39	33.057	27.013	37.34		4.229	18.38	4.168
9/23/2005 12:00	25.398	33.061	27.033	37.381		4.232	18.38	4.159
9/23/2005 16:00	25.383	33.038	26.982	37.356		4.239	18.45	4.155
9/23/2005 20:00	25.398	33.057	26.999	37.345		4.239	18.436	4.162
9/24/2005 0:00	25.398	33.07	27.013	37.354		4.231	18.404	4.151
9/24/2005 4:00	25.393	33.063	26.986	37.335		4.243	18.39	4.134
9/24/2005 8:00	25.405	33.074	26.997	37.317		4.237	18.404	4.125
9/24/2005 12:00	25.417	33.091	27.021	37.301		4.243	18.543	4.128
9/24/2005 16:00	25.395	33.061	26.952	37.287		4.233	18.667	4.172
9/24/2005 20:00	25.417	33.095	26.987	37.245		4.25	18.601	4.194
9/25/2005 0:00	25.432	33.114	27.011	37.294		4.243	18.483	4.179
9/25/2005 4:00	25.44	33.114	26.997	37.261		4.214	18.411	4.166
9/25/2005 8:00	25.415	33.155	27.067	37.312		4.212	18.591	4.158
9/25/2005 12:00	25.457	33.149	27.043	37.324		4.2	18.578	4.149
9/25/2005 16:00	25.447	33.129	27.001	37.287		4.235	18.903	4.192
9/25/2005 20:00	25.484	33.17	27.069	37.301		4.239	18.795	4.218
9/26/2005 0:00	25.542	33.247	27.202	37.384		4.231	18.601	4.213
9/26/2005 4:00	25.584	33.305	27.312	37.483		4.218	18.717	4.209
9/26/2005 8:00	25.64	33.362	27.435	37.599		4.239	18.628	4.209
9/26/2005 12:00	25.658	33.371	27.487	37.675		4.233	18.704	4.209
9/26/2005 16:00	25.658	33.349	27.473	37.728		4.226	18.899	4.241
9/26/2005 20:00	25.681	33.353	27.493	37.742		4.255	18.671	4.256
9/27/2005 0:00	25.678	33.373	27.526	37.776		4.243	18.682	4.243
9/27/2005 4:00	25.7	33.368	27.521	37.774		4.251	18.572	4.229
9/27/2005 8:00	25.688	33.383	27.55	37.793		4.237	18.551	4.22
9/27/2005 12:00	25.688	33.358	27.501	37.774		4.243	18.733	4.214
9/27/2005 16:00	25.66	33.307	27.405	37.7		4.249	18.847	4.25
9/27/2005 20:00	25.648	33.294	27.387	37.619		4.265	18.713	4.269
9/28/2005 0:00	25.648	33.289	27.371	37.617		4.253	18.574	4.252
9/28/2005 4:00	25.638	33.266	27.324	37.571		4.261	18.541	4.238
9/28/2005 8:00	25.663	33.302	27.381	37.559		4.249	18.74	4.24
9/28/2005 12:00	25.75	33.42	27.59	37.682		4.29	18.696	4.246
9/28/2005 16:00	25.792	33.494	27.703	37.811		4.255	18.713	4.257
9/28/2005 20:00	25.852	33.56	27.803	37.89		4.249	18.671	4.272
9/29/2005 0:00	25.882	33.616	27.885	38.04		4.261	18.75	4.265
9/29/2005 4:00	25.889	33.622	27.869	38.067		4.273	18.646	4.255
9/29/2005 8:00	25.916	33.667	27.934	38.114		4.257	18.667	4.253
9/29/2005 12:00	25.887	33.65	27.882	38.088		4.252	18.826	4.251
9/29/2005 16:00	25.839	33.586	27.747	38.024		4.277	18.864	4.264
9/29/2005 20:00	25.832	33.569	27.701	37.94		4.256	18.731	4.279
9/30/2005 0:00	25.822	33.58	27.703	37.873		4.258	18.601	4.266
9/30/2005 4:00	25.809	33.56	27.654	37.834		4.275	18.576	4.253

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
9/30/2005 8:00	25.817	33.578	27.662	37.832		4.242	18.57	4.245
9/30/2005 12:00	25.817	33.592	27.658	37.79		4.258	18.779	4.266
9/30/2005 16:00	25.797	33.571	27.602	37.776		4.296	18.866	4.294
9/30/2005 20:00	25.83	33.629	27.658	37.779		4.273	18.804	4.317
10/1/2005 0:00	25.852	33.663	27.697	37.779		4.279	18.69	4.303
10/1/2005 4:00	25.877	33.708	27.753	37.848		4.268	18.922	4.296
10/1/2005 8:00	25.909	33.746	27.803	37.885		4.268	18.897	4.29
10/1/2005 12:00	25.916	33.782	27.841	37.938		4.262	18.992	4.288
10/1/2005 16:00	25.906	33.78	27.815	37.908		4.291	18.92	4.311
10/1/2005 20:00	25.919	33.804	27.841	37.938		4.279	18.81	4.305
10/2/2005 0:00	25.926	33.827	27.865	37.952		4.276	19.05	4.29
10/2/2005 4:00	25.879	33.836	27.865	37.924		4.254	19.037	4.275
10/2/2005 8:00	25.847	33.827	27.871	37.961		4.227	18.675	4.262
10/2/2005 12:00	25.805	33.813	27.882	37.973		4.231	18.642	4.262
10/2/2005 16:00	25.78	33.782	27.869	37.945		4.26	18.915	4.299
10/2/2005 20:00	25.777	33.799	27.928	37.98		4.251	18.816	4.311
10/3/2005 0:00	25.785	33.823	27.988	38.028		4.284	18.74	4.303
10/3/2005 4:00	25.775	33.84	28.024	38.104		4.272	18.835	4.29
10/3/2005 8:00	25.782	33.849	28.051	38.132		4.278	18.905	4.286
10/3/2005 12:00	25.783	33.861	28.069	38.167		4.293	19.025	4.29
10/3/2005 16:00	25.767	33.849	28.04	38.155		4.313	19.112	4.316
10/3/2005 20:00	25.782	33.862	28.072	38.157		4.315	18.985	4.322
10/4/2005 0:00	25.805	33.887	28.117	38.167		4.286	18.865	4.312
10/4/2005 4:00	25.807	33.9	28.129	38.19		4.293	18.81	4.299
10/4/2005 8:00	25.815	33.908	28.145	38.208		4.286	18.855	4.289
10/4/2005 12:00	25.8	33.895	28.131	38.213		4.29	18.994	4.301
10/4/2005 16:00	25.772	33.866	28.08	38.173		4.323	19.284	4.327
10/4/2005 20:00	25.78	33.857	28.062	38.134		4.294	19.11	4.334
10/5/2005 0:00	25.792	33.878	28.076	38.134		4.311	18.969	4.321
10/5/2005 4:00	25.802	33.891	28.088	38.171		4.288	18.905	4.312
10/5/2005 8:00	25.832	33.93	28.153	38.178		4.311	19.027	4.312
10/5/2005 12:00	25.882	34.009	28.294	38.308		4.284	18.917	4.306
10/5/2005 16:00	25.901	34.051	28.364	38.388		4.288	18.876	4.306
10/5/2005 20:00	25.931	34.096	28.453	38.437		4.319	18.901	4.317
10/6/2005 0:00	25.964	34.146	28.531	38.557		4.309	18.938	4.315
10/6/2005 4:00	25.983	34.173	28.581	38.626		4.323	18.905	4.31
10/6/2005 8:00	25.978	34.18	28.593	38.666		4.312	18.99	4.302
10/6/2005 12:00	25.993	34.188	28.601	38.686		4.314	19.124	4.3
10/6/2005 16:00	25.973	34.16	28.545	38.629		4.318	19.058	4.302
10/6/2005 20:00	25.978	34.164	28.545	38.64		4.312	18.942	4.309
10/7/2005 0:00	25.991	34.19	28.581	38.663		4.3	18.929	4.3
10/7/2005 4:00	25.988	34.199	28.587	38.645		4.31	18.992	4.289
10/7/2005 8:00	25.998	34.216	28.611	38.688		4.322	18.952	4.283
10/7/2005 12:00	25.983	34.207	28.575	38.686		4.298	19.097	4.272
10/7/2005 16:00	25.951	34.16	28.487	38.587		4.312	19.05	4.271
10/7/2005 20:00	25.954	34.154	28.475	38.552		4.318	18.952	4.273
10/8/2005 0:00	25.959	34.171	28.49	38.578		4.325	18.865	4.262
10/8/2005 4:00	25.961	34.188	28.495	38.545		4.328	18.929	4.249
10/8/2005 8:00	25.971	34.205	28.519	38.552		4.361	18.979	4.243
10/8/2005 12:00	25.961	34.209	28.507	38.557		4.343	19.004	4.23
10/8/2005 16:00	25.936	34.162	28.416	38.531		4.361	19.01	4.237

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
10/8/2005 20:00	25.934	34.171	28.424	38.497		4.345	18.89	4.245
10/9/2005 0:00	25.919	34.186	28.436	38.495		4.334	18.907	4.233
10/9/2005 4:00	25.956	34.201	28.457	38.494		4.361	18.872	4.226
10/9/2005 8:00	25.968	34.222	28.489	38.513		4.349	18.853	4.216
10/9/2005 12:00	25.978	34.233	28.497	38.525		4.33	18.985	4.209
10/9/2005 16:00	25.966	34.207	28.44	38.492		4.353	19.049	4.214
10/9/2005 20:00	26.001	34.248	28.513	38.515		4.343	18.967	4.231
10/10/2005 0:00	26.033	34.282	28.571	38.568		4.336	18.969	4.224
10/10/2005 4:00	26.046	34.299	28.591	38.566		4.34	18.899	4.216
10/10/2005 8:00	26.076	34.337	28.664	38.619		4.338	18.961	4.211
10/10/2005 12:00	26.085	34.357	28.692	38.666		4.348	19.095	4.211
10/10/2005 16:00	26.073	34.344	28.654	38.673		4.355	19.196	4.22
10/10/2005 20:00	26.095	34.365	28.682	38.682		4.373	19.134	4.231
10/11/2005 0:00	26.11	34.388	28.714	38.742		4.359	19.097	4.229
10/11/2005 4:00	26.118	34.393	28.71	38.746		4.359	19.059	4.218
10/11/2005 8:00	26.13	34.406	28.73	38.753		4.381	19.035	4.214
10/11/2005 12:00	26.123	34.412	28.732	38.742		4.366	19.136	4.203
10/11/2005 16:00	26.09	34.395	28.684	38.712		4.379	19.142	4.214
10/11/2005 20:00	26.13	34.412	28.706	38.705		4.385	19.084	4.227
10/12/2005 0:00	26.076	34.427	28.75	38.728		4.348	19.109	4.214
10/12/2005 4:00	26.056	34.403	28.722	38.753		4.323	18.848	4.199
10/12/2005 8:00	25.976	34.371	28.726	38.753		4.311	18.592	4.186
10/12/2005 12:00	25.914	34.35	28.752	38.762		4.317	18.745	4.176
10/12/2005 16:00	25.87	34.322	28.752	38.781		4.335	18.869	4.178
10/12/2005 20:00	25.852	34.324	28.801	38.809		4.348	18.797	4.182
10/13/2005 0:00	25.82	34.318	28.813	38.873		4.347	18.809	4.174
10/13/2005 4:00	25.773	34.312	28.821	38.894		4.345	18.784	4.163
10/13/2005 8:00	25.837	34.314	28.837	38.915		4.354	18.778	4.157
10/13/2005 12:00	25.832	34.314	28.847	38.938		4.351	18.973	4.157
10/13/2005 16:00	25.81	34.286	28.807	38.913		4.352	18.981	4.172
10/13/2005 20:00	25.81	34.29	28.819	38.89		4.37	18.867	4.185
10/14/2005 0:00	25.817	34.307	28.849	38.938		4.37	18.941	4.179
10/14/2005 4:00	25.815	34.297	28.823	38.934		4.376	18.917	4.168
10/14/2005 8:00	25.835	34.318	28.859	38.917		4.376	18.915	4.164
10/14/2005 12:00	25.854	34.335	28.895	38.982		4.368	19.107	4.179
10/14/2005 16:00	25.847	34.327	28.863	38.954		4.39	19.153	4.198
10/14/2005 20:00	25.87	34.344	28.893	38.998		4.386	19.033	4.215
10/15/2005 0:00	25.896	34.382	28.949	39.005		4.378	18.942	4.211
10/15/2005 4:00	25.909	34.399	28.975	39.067		4.361	19.028	4.204
10/15/2005 8:00	25.942	34.425	29.01	39.067		4.361	19.01	4.198
10/15/2005 12:00	25.939	34.431	28.992	39.13		4.38	19.206	4.2
10/15/2005 16:00	25.909	34.393	28.889	39.088		4.378	19.188	4.211
10/15/2005 20:00	25.929	34.397	28.879	39.06		4.374	19.039	4.217
10/16/2005 0:00	25.942	34.414	28.893	39.065		4.376	18.971	4.213
10/16/2005 4:00	25.949	34.425	28.901	39.044		4.357	18.979	4.205
10/16/2005 8:00	25.971	34.44	28.921	39.081		4.373	19.115	4.2
10/16/2005 12:00	25.976	34.45	28.925	39.095		4.373	19.223	4.198
10/16/2005 16:00	25.949	34.418	28.846	39.053		4.367	19.14	4.203
10/16/2005 20:00	25.946	34.406	28.81	39.014		4.388	19.101	4.201
10/17/2005 0:00	25.939	34.403	28.79	38.991		4.381	19.074	4.19
10/17/2005 4:00	25.922	34.378	28.724	38.915		4.384	19.076	4.175

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
10/17/2005 8:00	25.946	34.395	28.746	38.927		4.369	19.039	4.171
10/17/2005 12:00	25.951	34.433	28.802	38.947		4.379	19.237	4.181
10/17/2005 16:00	25.885	34.438	28.79	38.952		4.381	19.324	
10/17/2005 20:00	25.902	36.29	28.814	38.888		4.384	19.21	4.225
10/18/2005 0:00	25.914	36.318	28.858	38.927		4.383	19.206	4.218
10/18/2005 4:00	25.949	36.33	28.862	38.918		4.4	19.232	4.212
10/18/2005 8:00	25.941	36.341	28.87	38.955		4.402	19.214	4.206
10/18/2005 12:00	25.959	36.347	28.866	38.934		4.398	19.383	4.21
10/18/2005 16:00	25.944	36.315	28.777	38.881		4.389	19.365	4.216
10/18/2005 20:00	25.946	36.326	28.789	38.894		4.389	19.253	4.221
10/19/2005 0:00	25.974	36.35	28.827	38.867		4.387	19.234	4.216
10/19/2005 4:00	26.018	36.418	28.946	38.931		4.365	19.323	4.221
10/19/2005 8:00	26.051	36.452	29.019	38.991		4.38	19.323	4.223
10/19/2005 12:00	26.058	36.461	29.017	39.068		4.38	19.443	4.21
10/19/2005 16:00	26.041	36.435	28.988	39.063		4.397	19.286	4.199
10/19/2005 20:00	26.026	36.426	28.987	39.033		4.381	19.249	4.193
10/20/2005 0:00	25.988	36.4	28.957	39.035		4.306	19.222	4.174
10/20/2005 4:00	25.466	36.264	28.884	39.003		3.224	18.543	3.602
10/20/2005 8:00	25.403	36.187	28.84	38.996		3.692	18.233	3.63
10/20/2005 12:00	25.268	36.14	28.823	39.003		3.933	18.19	3.649
10/20/2005 16:00	25.108	36.072	28.749	39.052		4.077	18.2	3.655
10/20/2005 20:00	25.039	36.036	28.759	39.102		4.191	18.167	3.668
10/21/2005 0:00	24.989	35.993	28.703	39.155		4.249	18.229	3.67
10/21/2005 4:00	24.927	35.946	28.612	39.179		4.296	18.241	3.67
10/21/2005 8:00	24.91	35.921	28.572	39.218		4.293	18.295	3.674
10/21/2005 12:00	24.894	35.891	28.502	39.262		4.294	18.479	3.675
10/21/2005 16:00	24.863	35.825	28.363	39.259		4.312	18.583	3.675
10/21/2005 20:00	24.83	35.793	28.307	39.255		4.314	18.413	3.677
10/22/2005 0:00	24.84	35.758	28.242	39.232		4.322	18.314	3.673
10/22/2005 4:00	24.832	35.718	28.162	39.213		4.296	18.299	3.666
10/22/2005 8:00	24.82	35.684	28.105	39.199		4.326	18.291	3.662
10/22/2005 12:00	24.825	35.66	28.079	39.225		4.316	18.401	3.656
10/22/2005 16:00	24.76	35.596	27.957	39.144		4.241	18.297	3.639
10/22/2005 20:00	24.741	35.584	27.975	39.174		4.277	18.227	3.641
10/23/2005 0:00	24.723	35.571	27.977	39.188		4.262	18.169	3.639
10/23/2005 4:00	24.731	35.569	27.999	39.22		4.312	18.279	3.637
10/23/2005 8:00	24.738	35.577	28.049	39.264		4.309	18.279	3.637
10/23/2005 12:00	24.743	35.562	28.035	39.296		4.334	18.477	3.624
10/23/2005 16:00	24.758	35.552	28.037	39.276		4.316	18.508	3.628
10/23/2005 20:00	24.773	35.562	28.078	39.338		4.355	18.44	3.628
10/24/2005 0:00	24.795	35.554	28.079	39.331		4.309	18.372	3.624
10/24/2005 4:00	24.798	35.537	28.069	39.363		4.338	18.386	3.618
10/24/2005 8:00	24.805	35.53	28.064	39.34		4.352	18.357	3.616
10/24/2005 12:00	24.83	35.513	28.047	39.377		4.338	18.605	3.609
10/24/2005 16:00	24.81	35.47	27.967	39.333		4.332	18.626	3.607
10/24/2005 20:00	24.822	35.466	27.969	39.287		4.321	18.471	3.611
10/25/2005 0:00	24.832	35.462	27.959	39.28		4.346	18.409	3.603
10/25/2005 4:00	24.84	35.449	27.947	39.299		4.33	18.359	3.601
10/25/2005 8:00	24.865	35.466	27.977	39.299		4.358	18.306	3.601
10/25/2005 12:00	24.885	35.466	27.973	39.308		4.344	18.555	3.599
10/25/2005 16:00	24.86	35.406	27.866	39.227		4.341	18.694	3.59

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
10/25/2005 20:00	24.852	35.391	27.846	39.216		4.338	18.526	3.59
10/26/2005 0:00	24.865	35.381	27.828	39.19		4.346	18.382	3.586
10/26/2005 4:00	24.875	35.379	27.826	39.167		4.333	18.377	3.584
10/26/2005 8:00	24.902	35.394	27.846	39.142		4.323	18.363	3.584
10/26/2005 12:00	24.919	35.396	27.854	39.16		4.323	18.63	3.582
10/26/2005 16:00	24.92	35.383	27.824	39.135		4.329	18.68	3.588
10/26/2005 20:00	24.966	35.421	27.899	39.155		4.348	18.506	3.603
10/27/2005 0:00	25.009	35.466	27.969	39.202		4.354	18.462	3.607
10/27/2005 4:00	25.046	35.487	28.015	39.236		4.353	18.409	3.607
10/27/2005 8:00	25.083	35.519	28.067	39.239		4.374	18.444	3.609
10/27/2005 12:00	25.118	35.547	28.108	39.308		4.347	18.667	3.611
10/27/2005 16:00	25.108	35.513	28.045	39.266		4.357	18.75	3.613
10/27/2005 20:00	25.125	35.526	28.065	39.283		4.366	18.622	3.622
10/28/2005 0:00	25.153	35.549	28.097	39.273		4.37	18.576	3.624
10/28/2005 4:00	25.16	35.552	28.101	39.271		4.374	18.543	3.624
10/28/2005 8:00	25.183	35.566	28.112	39.303		4.384	18.547	3.624
10/28/2005 12:00	25.187	35.566	28.103	39.303		4.371	18.802	3.622
10/28/2005 16:00	25.148	35.522	28.017	39.248		4.392	18.744	3.629
10/28/2005 20:00	25.177	35.53	28.027	39.188		4.398	18.638	3.637
10/29/2005 0:00	25.197	35.547	28.047	39.218		4.386	18.58	3.637
10/29/2005 4:00	25.177	35.549	28.045	39.183		4.376	18.599	3.637
10/29/2005 8:00	25.22	35.558	28.049	39.202		4.392	18.644	3.637
10/29/2005 12:00	25.237	35.562	28.045	39.165		4.392	18.812	3.639
10/29/2005 16:00	25.202	35.515	27.961	39.116		4.394	18.785	3.641
10/29/2005 20:00	25.225	35.543	28.005	39.125		4.4	18.657	3.652
10/30/2005 0:00	25.244	35.562	28.029	39.142		4.394	18.669	3.65
10/30/2005 4:00	25.239	35.534	27.991	39.093		4.394	18.646	3.646
10/30/2005 8:00	25.257	35.549	28.019	39.119		4.421	18.64	3.65
10/30/2005 12:00	25.294	35.577	28.053	39.125		4.398	18.82	3.654
10/30/2005 16:00	25.277	35.556	28.017	39.107		4.416	18.876	3.656
10/30/2005 20:00	25.316	35.594	28.077	39.091		4.398	18.694	3.663
10/31/2005 0:00	25.342	35.622	28.114	39.141		4.418	18.68	3.663
10/31/2005 4:00	25.371	35.658	28.178	39.174		4.396	18.677	3.667
10/31/2005 8:00	25.404	35.701	28.24	39.216		4.402	18.731	3.671
10/31/2005 12:00	25.441	35.722	28.27	39.246		4.431	18.752	3.673
10/31/2005 16:00	25.418	35.692	28.222	39.227		4.427	18.992	3.673
10/31/2005 20:00	25.443	35.712	28.25	39.202		4.431	18.781	3.682
11/1/2005 0:00	25.466	35.733	28.276	39.248		4.447	18.706	3.68
11/1/2005 4:00	25.453	35.716	28.248	39.232		4.428	18.63	3.68
11/1/2005 8:00	25.456	35.716	28.236	39.183		4.432	18.601	3.678
11/1/2005 12:00	25.473	35.722	28.232	39.197		4.424	18.897	3.68
11/1/2005 16:00	25.461	35.699	28.198	39.142		4.434	19.006	3.684
11/1/2005 20:00	25.498	35.741	28.266	39.183		4.424	18.843	3.695
11/2/2005 0:00	25.493	35.758	28.276	39.199		4.432	18.741	3.695
11/2/2005 4:00	25.508	35.75	28.254	39.16		4.444	18.708	3.689
11/2/2005 8:00	25.508	35.741	28.234	39.16		4.424	18.671	3.689
11/2/2005 12:00	25.505	35.737	28.208	39.112		4.422	18.963	3.689
11/2/2005 16:00	25.463	35.675	28.095	39.07		4.426	18.96	3.684
11/2/2005 20:00	25.481	35.707	28.151	39.047		4.43	18.762	3.697
11/3/2005 0:00	25.495	35.72	28.152	39.04		4.436	18.727	3.695
11/3/2005 4:00	25.468	35.699	28.114	39.017		4.424	18.702	3.691

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/3/2005 8:00	25.478	35.697	28.104	38.955		4.417	18.679	3.693
11/3/2005 12:00	25.481	35.684	28.079	38.961		4.413	18.886	3.689
11/3/2005 16:00	25.441	35.648	28.011	38.904		4.426	18.874	3.687
11/3/2005 20:00	25.486	35.701	28.095	38.906		4.413	18.758	3.695
11/4/2005 0:00	25.528	35.746	28.16	38.92		4.433	18.78	3.697
11/4/2005 4:00	25.562	35.793	28.242	38.966		4.427	18.764	3.704
11/4/2005 8:00	25.587	35.818	28.284	38.991		4.444	18.812	3.704
11/4/2005 12:00	25.602	35.82	28.274	39.042		4.446	19.025	3.697
11/4/2005 16:00	25.582	35.793	28.222	38.978		4.434	19.002	3.7
11/4/2005 20:00	25.597	35.816	28.27	38.975		4.434	18.843	3.708
11/5/2005 0:00	25.619	35.835	28.284	39.019		4.427	18.812	3.704
11/5/2005 4:00	25.624	35.833	28.274	39.01		4.425	18.783	3.702
11/5/2005 8:00	25.632	35.848	28.312	39.019		4.452	18.812	3.704
11/5/2005 12:00	25.652	35.867	28.337	39.035		4.429	18.898	3.704
11/5/2005 16:00	25.655	35.867	28.332	39.022		4.431	19.076	3.708
11/5/2005 20:00	25.694	35.925	28.425	39.038		4.429	18.958	3.715
11/6/2005 0:00	25.719	35.989	28.538	39.093		4.464	18.882	3.727
11/6/2005 4:00	25.791	36.062	28.659	39.206		4.452	19.023	3.732
11/6/2005 8:00	25.83	36.104	28.733	39.245		4.476	19.008	3.736
11/6/2005 12:00	25.875	36.153	28.809	39.347		4.483	19.198	3.74
11/6/2005 16:00	25.855	36.106	28.729	39.315		4.464	19.217	3.736
11/6/2005 20:00	25.858	36.113	28.747	39.336		4.483	19.085	3.742
11/7/2005 0:00	25.873	36.13	28.767	39.347		4.491	19.072	3.745
11/7/2005 4:00	25.878	36.13	28.763	39.345		4.47	19.058	3.745
11/7/2005 8:00	25.883	36.13	28.763	39.34		4.486	19.041	3.747
11/7/2005 12:00	25.892	36.143	28.771	39.308		4.463	19.21	3.749
11/7/2005 16:00	25.88	36.119	28.725	39.303		4.488	19.235	3.749
11/7/2005 20:00	25.905	36.166	28.793	39.319		4.465	19.114	3.759
11/8/2005 0:00	25.918	36.2	28.831	39.347		4.486	19.109	3.759
11/8/2005 4:00	25.928	36.2	28.815	39.35		4.501	19.109	3.755
11/8/2005 8:00	25.915	36.181	28.777	39.294		4.48	19.111	3.751
11/8/2005 12:00	25.91	36.168	28.747	39.294		4.49	19.227	3.747
11/8/2005 16:00	25.821	36.14	28.703	39.255		4.481	19.171	3.749
11/8/2005 20:00	25.913	36.175	28.753	39.218		4.492	19.082	3.762
11/9/2005 0:00	25.928	36.209	28.783	39.266		4.481	19.115	3.758
11/9/2005 4:00	26.034	36.375	29.058	39.366		4.498	19.221	3.781
11/9/2005 8:00	26.081	36.424	29.141	39.458		4.486	19.233	3.785
11/9/2005 12:00	26.126	36.469	29.245	39.523		4.504	19.368	3.794
11/9/2005 16:00	26.139	36.473	29.249	39.557		4.506	19.405	3.796
11/9/2005 20:00	26.171	36.505	29.32	39.611		4.514	19.256	3.804
11/10/2005 0:00	26.176	36.507	29.324	39.643		4.502	19.26	3.804
11/10/2005 4:00	26.176	36.505	29.322	39.629		4.508	19.293	3.809
11/10/2005 8:00	26.178	36.501	29.304	39.664		4.533	19.25	3.809
11/10/2005 12:00	26.183	36.497	29.282	39.636		4.516	19.492	3.807
11/10/2005 16:00	26.144	36.445	29.175	39.622		4.526	19.521	3.802
11/10/2005 20:00	26.126	36.439	29.151	39.583		4.52	19.37	3.807
11/11/2005 0:00	26.121	36.435	29.129	39.534		4.504	19.277	3.807
11/11/2005 4:00	26.111	36.426	29.097	39.509		4.491	19.26	3.805
11/11/2005 8:00	26.104	36.432	29.095	39.518		4.52	19.246	3.807
11/11/2005 12:00	26.116	36.43	29.076	39.497		4.509	19.446	3.802
11/11/2005 16:00	26.079	36.386	28.986	39.433		4.505	19.382	3.798

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/11/2005 20:00	26.077	36.383	28.978	39.43		4.509	19.272	3.805
11/12/2005 0:00	26.067	36.383	28.974	39.393		4.487	19.225	3.802
11/12/2005 4:00	26.052	36.36	28.925	39.349		4.495	19.287	3.798
11/12/2005 8:00	26.029	36.33	28.86	39.296		4.514	19.336	3.792
11/12/2005 12:00	26.024	36.328	28.835	39.255		4.495	19.32	3.788
11/12/2005 16:00	26.017	36.302	28.801	39.204		4.512	19.316	3.796
11/12/2005 20:00	26.099	36.439	29.044	39.246		4.505	19.25	3.817
11/13/2005 0:00	26.188	36.543	29.256	39.398		4.514	19.347	3.83
11/13/2005 4:00	26.248	36.62	29.444	39.453		4.54	19.395	3.839
11/13/2005 8:00	26.32	36.661	29.545	39.548		4.513	19.44	3.845
11/13/2005 12:00	26.362	36.701	29.648	39.664		4.53	19.546	3.854
11/13/2005 16:00	26.377	36.705	29.668	39.717		4.544	19.649	3.852
11/13/2005 20:00	26.397	36.712	29.698	39.728		4.544	19.464	3.858
11/14/2005 0:00	26.402	36.712	29.688	39.781		4.552	19.4	3.858
11/14/2005 4:00	26.366	36.703	29.673	39.79		4.525	19.423	3.862
11/14/2005 8:00	26.369	36.673	29.597	39.779		4.535	19.483	3.856
11/14/2005 12:00	26.332	36.635	29.499	39.742		4.527	19.587	3.852
11/14/2005 16:00	26.287	36.575	29.376	39.654		4.544	19.531	3.845
11/14/2005 20:00	26.283	36.593	29.374	39.629		4.552	19.454	3.847
11/15/2005 0:00	26.285	36.593	29.368	39.638		4.535	19.438	3.848
11/15/2005 4:00	26.27	36.58	29.336	39.585		4.554	19.456	3.852
11/15/2005 8:00	26.297	36.624	29.436	39.62		4.548	19.419	3.864
11/15/2005 12:00	26.315	36.654	29.493	39.603		4.523	19.413	3.869
11/15/2005 16:00	26.34	36.684	29.595	39.668		4.577	19.382	3.877
11/15/2005 20:00	26.387	36.742	29.738	39.696		4.535	19.332	3.881
11/16/2005 0:00	26.419	36.778	29.816	39.775		4.56	19.413	3.89
11/16/2005 4:00	26.434	36.816	29.869	39.82		4.546	19.464	3.888
11/16/2005 8:00	26.466	36.861	29.949	39.869		4.572	19.529	3.898
11/16/2005 12:00	26.516	37	30.074	39.922		4.549	19.605	3.903
11/16/2005 16:00	26.518	36.975	30.058	39.955		4.56	19.731	3.901
11/16/2005 20:00	26.538	36.998	30.09	39.982		4.566	19.564	3.907
11/17/2005 0:00	26.541	36.994	30.08	40.001		4.588	19.586	3.907
11/17/2005 4:00	26.528	36.983	30.078	40.01		4.551	19.607	3.909
11/17/2005 8:00	26.531	36.966	30.066	40.019		4.568	19.596	3.909
11/17/2005 12:00	26.528	36.955	30.046	39.996		4.598	19.692	3.907
11/17/2005 16:00	26.494	36.891	29.961	39.998		4.551	19.858	3.905
11/17/2005 20:00	26.504	36.917	29.993	39.971		4.557	19.769	3.913
11/18/2005 0:00	26.514	36.94	30.016	40.008		4.565	19.731	3.916
11/18/2005 4:00	26.504	36.919	29.981	40.003		4.578	19.735	3.911
11/18/2005 8:00	26.506	36.923	29.985	39.973		4.567	19.719	3.913
11/18/2005 12:00	26.499	36.908	29.957	39.996		4.576	19.913	3.912
11/18/2005 16:00	26.447	36.795	29.81	39.922		4.563	19.869	3.899
11/18/2005 20:00	26.412	36.738	29.726	39.913		4.551	19.756	3.892
11/19/2005 0:00	26.375	36.714	29.681	39.88		4.552	19.706	3.892
11/19/2005 4:00	26.37	36.697	29.631	39.818		4.565	19.706	3.886
11/19/2005 8:00	26.382	36.748	29.728	39.846		4.565	19.642	3.899
11/19/2005 12:00	26.434	36.817	29.822	39.869		4.563	19.768	3.903
11/19/2005 16:00	26.457	36.864	29.877	39.892		4.589	19.793	3.909
11/19/2005 20:00	26.501	36.951	29.991	39.927		4.554	19.685	3.918
11/20/2005 0:00	26.526	37.007	30.044	39.924		4.581	19.642	3.92
11/20/2005 4:00	26.553	37.041	30.092	39.945		4.561	19.594	3.924

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/20/2005 8:00	26.563	37.051	30.11	39.966		4.589	19.611	3.926
11/20/2005 12:00	26.563	37.064	30.118	40.01		4.592	19.652	3.926
11/20/2005 16:00	26.556	37.034	30.07	40.01		4.585	19.731	3.924
11/20/2005 20:00	26.563	37.055	30.098	40.017		4.566	19.71	3.933
11/21/2005 0:00	26.558	37.036	30.061	40.008		4.562	19.638	3.927
11/21/2005 4:00	26.546	37.015	30.026	39.998		4.585	19.64	3.924
11/21/2005 8:00	26.536	37.019	30.046	39.962		4.583	19.636	3.933
11/21/2005 12:00	26.546	37.039	30.07	39.994		4.597	19.795	3.933
11/21/2005 16:00	26.563	37.1	30.09	40.001		4.591	20.006	3.935
11/21/2005 20:00	26.591	37.152	30.138	40.017		4.603	19.853	3.937
11/22/2005 0:00	26.601	37.182	30.168	40.005		4.589	19.76	3.939
11/22/2005 4:00	26.61	37.199	30.184	40.038		4.611	19.737	3.941
11/22/2005 8:00	26.61	37.203	30.184	40.047		4.613	19.739	3.941
11/22/2005 12:00	26.61	37.214	30.184	40.047		4.603	19.865	3.941
11/22/2005 16:00	26.568	37.124	30.062	39.978		4.591	20.097	3.933
11/22/2005 20:00	26.521	37.107	30.029	39.987		4.591	19.899	3.931
11/23/2005 0:00	26.521	37.043	29.941	39.927		4.568	19.917	3.925
11/23/2005 4:00	26.489	36.998	29.875	39.922		4.603	19.894	3.92
11/23/2005 8:00	26.494	37.002	29.891	39.904		4.58	19.869	3.925
11/23/2005 12:00	26.499	37.043	29.933	39.876		4.569	19.903	3.925
11/23/2005 16:00	26.524	37.077	29.965	39.878		4.588	19.901	3.929
11/23/2005 20:00	26.551	37.145	30.04	39.897		4.588	19.745	3.937
11/24/2005 0:00	26.586	37.207	30.114	39.924		4.602	19.722	3.943
11/24/2005 4:00	26.628	37.282	30.207	39.984		4.594	19.735	3.95
11/24/2005 8:00	26.677	37.38	30.335	40.024		4.6	19.747	3.96
11/24/2005 12:00	26.74	37.497	30.498	40.084		4.613	19.813	3.967
11/24/2005 16:00	26.737	37.491	30.48	40.111		4.603	19.939	3.965
11/24/2005 20:00	26.772	37.544	30.556	40.109		4.611	19.726	3.976
11/25/2005 0:00	26.772	37.547	30.542	40.137		4.607	19.801	3.971
11/25/2005 4:00	26.767	37.525	30.51	40.178		4.631	19.768	3.971
11/25/2005 8:00	26.754	37.5	30.47	40.172		4.612	19.728	3.971
11/25/2005 12:00	26.732	37.465	30.413	40.155		4.608	19.898	3.967
11/25/2005 16:00	26.68	37.35	30.259	40.111		4.621	20.064	3.954
11/25/2005 20:00	26.673	37.342	30.252	40.093		4.598	19.931	3.956
11/26/2005 0:00	26.658	37.372	30.285	40.084		4.612	19.863	3.963
11/26/2005 4:00	26.682	37.389	30.297	40.056		4.583	19.838	3.959
11/26/2005 8:00	26.675	37.389	30.285	40.049		4.571	19.819	3.961
11/26/2005 12:00	26.675	37.378	30.259	40.07		4.581	19.999	3.956
11/26/2005 16:00	26.641	37.303	30.156	40.01		4.583	19.993	3.948
11/26/2005 20:00	26.636	37.303	30.154	40.026		4.602	19.954	3.95
11/27/2005 0:00	26.641	37.316	30.164	40.021		4.597	19.944	3.95
11/27/2005 4:00	26.616	37.28	30.112	39.998		4.589	20.016	3.946
11/27/2005 8:00	26.611	37.261	30.092	39.961		4.589	20.014	3.946
11/27/2005 12:00	26.608	37.246	30.063	39.943		4.6	20.012	3.937
11/27/2005 16:00	26.564	37.171	29.969	39.938		4.595	19.973	3.933
11/27/2005 20:00	26.559	37.162	29.961	39.885		4.566	19.871	3.931
11/28/2005 0:00	26.531	37.141	29.931	39.892		4.575	19.824	3.927
11/28/2005 4:00	26.522	37.126	29.933	39.869		4.595	19.791	3.927
11/28/2005 8:00	26.534	37.162	30.025	39.876		4.569	19.671	3.935
11/28/2005 12:00	26.551	37.228	30.14	39.913		4.593	19.604	3.944
11/28/2005 16:00	26.571	37.278	30.252	39.947		4.593	19.616	3.952

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
11/28/2005 20:00	26.626	37.378	30.407	39.996		4.607	19.668	3.961
11/29/2005 0:00	26.656	37.436	30.514	40.042		4.616	19.733	3.969
11/29/2005 4:00	26.7	37.508	30.647	40.07		4.63	19.842	3.98
11/29/2005 8:00	26.742	37.585	30.753	40.151		4.655	19.867	3.982
11/29/2005 12:00	26.787	37.66	30.854	40.215		4.628	19.939	3.988
11/29/2005 16:00	26.802	37.677	30.904	40.229		4.634	19.995	3.995
11/29/2005 20:00	26.834	37.728	30.976	40.312		4.632	19.978	3.997
11/30/2005 0:00	26.837	37.737	30.99	40.354		4.644	19.939	3.995
11/30/2005 4:00	26.832	37.722	30.988	40.347		4.646	19.918	3.995
11/30/2005 8:00	26.827	37.707	30.974	40.393		4.634	19.887	3.997
11/30/2005 12:00	26.809	37.66	30.9	40.386		4.644	19.989	3.988
11/30/2005 16:00	26.773	37.583	30.829	40.326		4.669	20.109	3.988
11/30/2005 20:00	26.782	37.613	30.861	40.363		4.634	20.084	3.997
12/1/2005 0:00	26.792	37.64	30.888	40.379		4.646	20.071	3.999
12/1/2005 4:00	26.857	37.754	31.048	40.398		4.638	19.933	4.012
12/1/2005 8:00	26.907	37.833	31.151	40.449		4.665	19.92	4.014
12/1/2005 12:00	26.936	37.892	31.234	40.495		4.665	20.024	4.018
12/1/2005 16:00	26.934	37.85	31.189	40.541		4.646	20.136	4.014
12/1/2005 20:00	26.924	37.833	31.161	40.511		4.656	20.113	4.012
12/2/2005 0:00	26.931	37.843	31.171	40.523		4.654	20.098	4.018
12/2/2005 4:00	26.921	37.835	31.163	40.55		4.678	20.102	4.016
12/2/2005 8:00	26.907	37.811	31.125	40.548		4.654	20.131	4.014
12/2/2005 12:00	26.882	37.756	31.034	40.523		4.648	20.243	4.003
12/2/2005 16:00	26.825	37.651	30.898	40.439		4.645	20.305	3.995
12/2/2005 20:00	26.827	37.662	30.92	40.46		4.656	20.222	4.001
12/3/2005 0:00	26.822	37.662	30.902	40.421		4.631	20.206	3.999
12/3/2005 4:00	26.82	37.662	30.89	40.446		4.657	20.189	3.995
12/3/2005 8:00	26.818	37.666	30.912	40.421		4.681	20.176	4.003
12/3/2005 12:00	26.837	37.707	30.948	40.458		4.672	20.199	4.003
12/3/2005 16:00	26.842	37.713	30.962	40.463		4.639	20.239	4.007
12/3/2005 20:00	26.89	37.818	31.093	40.509		4.661	20.125	4.02
12/4/2005 0:00	26.939	37.899	31.193	40.555		4.641	20.063	4.024
12/4/2005 4:00	26.956	37.933	31.247	40.583		4.645	20.052	4.031
12/4/2005 8:00	26.972	37.976	31.318	40.592		4.662	20.023	4.035
12/4/2005 12:00	27.026	38.04	31.394	40.67		4.69	20.104	4.037
12/4/2005 16:00	27.026	38.027	31.384	40.68		4.674	20.174	4.039
12/4/2005 20:00	27.051	38.067	31.436	40.712		4.67	20.079	4.044
12/5/2005 0:00	27.068	38.095	31.473	40.737		4.67	20.135	4.048
12/5/2005 4:00	27.066	38.084	31.453	40.744		4.676	20.156	4.044
12/5/2005 8:00	27.051	38.052	31.424	40.735		4.663	20.162	4.044
12/5/2005 12:00	27.026	38.02	31.366	40.714		4.665	20.297	4.037
12/5/2005 16:00	26.974	37.905	31.213	40.657		4.677	20.416	4.027
12/5/2005 20:00	26.937	37.843	31.145	40.583		4.659	20.334	4.029
12/6/2005 0:00	26.986	37.948	31.282	40.65		4.671	20.234	4.046
12/6/2005 4:00	27.036	38.042	31.374	40.696		4.671	20.181	4.048
12/6/2005 8:00	27.086	38.127	31.495	40.717		4.677	20.176	4.06
12/6/2005 12:00	27.13	38.2	31.587	40.765		4.692	20.193	4.062
12/6/2005 16:00	27.14	38.195	31.583	40.818		4.682	20.265	4.06
12/6/2005 20:00	27.14	38.24	31.648	40.848		4.691	20.181	4.069
12/7/2005 0:00	27.195	38.287	31.706	40.851		4.679	20.234	4.071
12/7/2005 4:00	27.204	38.311	31.742	40.874		4.687	20.248	4.075

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
12/7/2005 8:00	27.194	38.326	31.766	40.895		4.706	20.228	4.075
12/7/2005 12:00	27.237	38.347	31.798	40.943		4.694	20.308	4.079
12/7/2005 16:00	27.217	38.302	31.748	40.931		4.712	20.41	4.073
12/7/2005 20:00	27.212	38.306	31.764	40.934		4.706	20.43	4.077
12/8/2005 0:00	27.204	38.289	31.738	40.929		4.679	20.488	4.073
12/8/2005 4:00	27.195	38.262	31.71	40.911		4.696	20.54	4.077
12/8/2005 8:00	27.182	38.244	31.69	40.899		4.669	20.561	4.077
12/8/2005 12:00	27.18	38.24	31.68	40.897		4.714	20.588	4.077
12/8/2005 16:00	27.158	38.204	31.637	40.844		4.693	20.65	4.075
12/8/2005 20:00	27.177	38.23	31.67	40.865		4.689	20.635	4.079
12/9/2005 0:00	27.19	38.257	31.706	40.906		4.703	20.613	4.084
12/9/2005 4:00	27.205	38.268	31.718	40.922		4.71	20.617	4.082
12/9/2005 8:00	27.197	38.259	31.71	40.927		4.689	20.637	4.082
12/9/2005 12:00	27.204	38.251	31.706	40.929		4.691	20.658	4.079
12/9/2005 16:00	27.168	38.176	31.611	40.855		4.685	20.656	4.073
12/9/2005 20:00	27.143	38.14	31.565	40.858		4.672	20.652	4.071
12/10/2005 0:00	27.13	38.099	31.505	40.832		4.691	20.642	4.065
12/10/2005 4:00	27.083	38.029	31.416	40.791		4.678	20.646	4.056
12/10/2005 8:00	27.068	38.008	31.384	40.737		4.674	20.573	4.06
12/10/2005 12:00	27.076	38.042	31.416	40.731		4.68	20.577	4.062
12/10/2005 16:00	27.098	38.074	31.452	40.77		4.684	20.571	4.067
12/10/2005 20:00	27.14	38.151	31.549	40.788		4.688	20.503	4.073
12/11/2005 0:00	27.135	38.172	31.587	40.839		4.662	20.474	4.075
12/11/2005 4:00	27.153	38.161	31.593	40.851		4.69	20.482	4.077
12/11/2005 8:00	27.153	38.148	31.591	40.851		4.674	20.48	4.077
12/11/2005 12:00	27.11	38.119	31.551	40.814		4.73	20.544	4.071
12/11/2005 16:00	27.101	38.05	31.486	40.807		4.709	20.497	4.071
12/11/2005 20:00	27.108	38.089	31.531	40.816		4.697	20.395	4.075
12/12/2005 0:00	27.12	38.114	31.567	40.814		4.669	20.352	4.073
12/12/2005 4:00	27.12	38.127	31.601	40.86		4.67	20.339	4.079
12/12/2005 8:00	27.14	38.189	31.692	40.862		4.684	20.304	4.088
12/12/2005 12:00	27.202	38.249	31.762	40.934		4.688	20.447	4.09
12/12/2005 16:00	27.2	38.236	31.762	40.952		4.715	20.602	4.088
12/12/2005 20:00	27.21	38.259	31.802	40.943		4.713	20.438	4.092
12/13/2005 0:00	27.175	38.251	31.794	40.985		4.707	20.374	4.09
12/13/2005 4:00	27.19	38.227	31.778	40.982		4.702	20.399	4.088
12/13/2005 8:00	27.162	38.189	31.74	40.938		4.723	20.44	4.088
12/13/2005 12:00	27.13	38.148	31.683	40.941		4.715	20.521	4.079
12/13/2005 16:00	27.103	38.061	31.591	40.871		4.702	20.573	4.071
12/13/2005 20:00	27.086	38.046	31.557	40.851		4.725	20.579	4.071
12/14/2005 0:00	27.058	38.01	31.511	40.855		4.71	20.583	4.066
12/14/2005 4:00	27.059	38.018	31.537	40.825		4.698	20.54	4.068
12/14/2005 8:00	27.079	38.101	31.655	40.892		4.725	20.442	4.079
12/14/2005 12:00	27.138	38.163	31.724	40.943		4.737	20.49	4.081
12/14/2005 16:00	27.126	38.166	31.746	40.955		4.723	20.54	4.081
12/14/2005 20:00	27.15	38.178	31.77	40.975		4.723	20.48	4.083
12/15/2005 0:00	27.16	38.189	31.79	40.985		4.727	20.424	4.085
12/15/2005 4:00	27.156	38.174	31.78	40.959		4.694	20.418	4.083
12/15/2005 8:00	27.143	38.153	31.77	40.985		4.724	20.426	4.083
12/15/2005 12:00	27.158	38.166	31.796	40.968		4.683	20.442	4.088
12/15/2005 16:00	27.168	38.17	31.816	41.003		4.71	20.49	4.09

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
12/15/2005 20:00	27.18	38.21	31.854	41.024		4.728	20.451	4.09
12/16/2005 0:00	27.193	38.225	31.876	41.008		4.716	20.444	4.094
12/16/2005 4:00	27.2	38.244	31.909	41.056		4.739	20.448	4.096
12/16/2005 8:00	27.21	38.259	31.939	41.047		4.734	20.428	4.098
12/16/2005 12:00	27.26	38.332	32.017	41.114		4.747	20.471	4.104
12/16/2005 16:00	27.272	38.334	32.038	41.135		4.745	20.519	4.104
12/16/2005 20:00	27.302	38.379	32.104	41.142		4.732	20.488	4.113
12/17/2005 0:00	27.342	38.46	32.178	41.186		4.716	20.465	4.119
12/17/2005 4:00	27.367	38.503	32.236	41.229		4.751	20.467	4.119
12/17/2005 8:00	27.391	38.533	32.289	41.264		4.751	20.457	4.123
12/17/2005 12:00	27.418	38.575	32.335	41.329		4.765	20.585	4.126
12/17/2005 16:00	27.413	38.55	32.343	41.308		4.753	20.62	4.126
12/17/2005 20:00	27.436	38.582	32.379	41.336		4.786	20.585	4.127
12/18/2005 0:00	27.46	38.622	32.429	41.398		4.79	20.624	4.136
12/18/2005 4:00	27.475	38.644	32.447	41.424		4.759	20.616	4.134
12/18/2005 8:00	27.493	38.674	32.488	41.447		4.767	20.672	4.136
12/18/2005 12:00	27.52	38.699	32.518	41.474		4.757	20.699	4.14
12/18/2005 16:00	27.51	38.654	32.508	41.47		4.757	20.744	4.14
12/18/2005 20:00	27.508	38.648	32.514	41.474		4.775	20.746	4.14
12/19/2005 0:00	27.51	38.644	32.514	41.477		4.767	20.755	4.14
12/19/2005 4:00	27.503	38.654	32.52	41.481		4.789	20.746	4.142
12/19/2005 8:00	27.505	38.637	32.508	41.454		4.767	20.761	4.142
12/19/2005 12:00	27.508	38.637	32.512	41.458		4.777	20.773	4.14
12/19/2005 16:00	27.47	38.563	32.443	41.444		4.779	20.887	4.134
12/19/2005 20:00	27.455	38.545	32.421	41.43		4.766	20.895	4.136
12/20/2005 0:00	27.448	38.513	32.393	41.412		4.779	20.936	4.134
12/20/2005 4:00	27.441	38.511	32.383	41.396		4.75	20.93	4.134
12/20/2005 8:00	27.438	38.507	32.381	41.373		4.764	20.944	4.134
12/20/2005 12:00	27.448	38.516	32.383	41.403		4.76	20.951	4.136
12/20/2005 16:00	27.438	38.494	32.359	41.393		4.742	20.953	4.134
12/20/2005 20:00	27.426	38.501	32.363	41.363		4.787	20.948	4.134
12/21/2005 0:00	27.446	38.501	32.363	41.396		4.762	20.948	4.136
12/21/2005 4:00	27.441	38.49	32.349	41.396		4.756	20.963	4.131
12/21/2005 8:00	27.436	38.481	32.347	41.359		4.768	20.973	4.133
12/21/2005 12:00	27.453	38.513	32.371	41.403		4.772	20.965	4.138
12/21/2005 16:00	27.446	38.486	32.347	41.363		4.776	21.021	4.133
12/21/2005 20:00	27.448	38.486	32.349	41.398		4.762	20.99	4.138
12/22/2005 0:00	27.441	38.466	32.331	41.393		4.756	20.988	4.133
12/22/2005 4:00	27.419	38.434	32.299	41.345		4.749	20.992	4.131
12/22/2005 8:00	27.396	38.385	32.25	41.343		4.752	20.959	4.125
12/22/2005 12:00	27.394	38.383	32.234	41.336		4.747	20.99	4.125
12/22/2005 16:00	27.367	38.321	32.18	41.308		4.772	20.841	4.12
12/22/2005 20:00	27.359	38.309	32.156	41.262		4.754	20.767	4.118
12/23/2005 0:00	27.354	38.304	32.148	41.257		4.731	20.791	4.116
12/23/2005 4:00	27.349	38.296	32.138	41.273		4.764	20.808	4.116
12/23/2005 8:00	27.359	38.319	32.17	41.287		4.735	20.754	4.12
12/23/2005 12:00	27.374	38.349	32.194	41.271		4.747	20.806	4.122
12/23/2005 16:00	27.352	38.3	32.154	41.253		4.747	20.963	4.118
12/23/2005 20:00	27.367	38.311	32.168	41.262		4.749	20.884	4.118
12/24/2005 0:00	27.374	38.323	32.182	41.294		4.743	20.857	4.122
12/24/2005 4:00	27.382	38.341	32.202	41.306		4.752	20.862	4.122

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
12/24/2005 8:00	27.387	38.366	32.24	41.324		4.735	20.709	4.122
12/24/2005 12:00	27.384	38.415	32.303	41.37		4.698	20.541	4.116
12/24/2005 16:00	27.347	38.394	32.314	41.368		4.691	20.524	4.097
12/24/2005 20:00	27.359	38.4	32.351	41.393		4.716	20.493	4.079
12/25/2005 0:00	27.34	38.381	32.365	41.437		4.726	20.498	4.064
12/25/2005 4:00	27.33	38.358	32.377	41.444		4.741	20.518	4.058
12/25/2005 8:00	27.32	38.345	32.389	41.463		4.722	20.507	4.051
12/25/2005 12:00	27.32	38.345	32.407	41.477		4.741	20.538	4.043
12/25/2005 16:00	27.305	38.311	32.401	41.474		4.766	20.613	4.039
12/25/2005 20:00	27.313	38.311	32.419	41.46		4.753	20.592	4.037
12/26/2005 0:00	27.298	38.3	32.421	41.465		4.743	20.578	4.032
12/26/2005 4:00	27.288	38.277	32.409	41.497		4.771	20.582	4.026
12/26/2005 8:00	27.276	38.236	32.383	41.451		4.761	20.599	4.024
12/26/2005 12:00	27.266	38.232	32.377	41.481		4.747	20.673	4.02
12/26/2005 16:00	27.234	38.153	32.319	41.444		4.771	20.896	4.016
12/26/2005 20:00	27.229	38.151	32.308	41.435		4.736	20.758	4.016
12/27/2005 0:00	27.219	38.138	32.3	41.43		4.73	20.721	4.013
12/27/2005 4:00	27.209	38.116	32.272	41.417		4.753	20.675	4.007
12/27/2005 8:00	27.184	38.084	32.232	41.398		4.749	20.681	4.005
12/27/2005 12:00	27.179	38.078	32.22	41.393		4.742	20.76	4.001
12/27/2005 16:00	27.167	38.046	32.202	41.35		4.734	20.783	4.003
12/27/2005 20:00	27.224	38.151	32.3	41.433		4.74	20.617	4.016
12/28/2005 0:00	27.237	38.178	32.329	41.433		4.773	20.594	4.011
12/28/2005 4:00	27.264	38.208	32.367	41.449		4.74	20.555	4.017
12/28/2005 8:00	27.286	38.244	32.411	41.479		4.75	20.586	4.024
12/28/2005 12:00	27.308	38.279	32.435	41.525		4.773	20.679	4.022
12/28/2005 16:00	27.296	38.255	32.431	41.5		4.767	20.841	4.026
12/28/2005 20:00	27.318	38.289	32.453	41.546		4.76	20.698	4.028
12/29/2005 0:00	27.341	38.319	32.485	41.564		4.775	20.625	4.034
12/29/2005 4:00	27.333	38.317	32.493	41.576		4.796	20.673	4.036
12/29/2005 8:00	27.343	38.326	32.493	41.581		4.775	20.69	4.036
12/29/2005 12:00	27.348	38.328	32.497	41.592		4.775	20.729	4.036
12/29/2005 16:00	27.316	38.262	32.445	41.562		4.777	20.87	4.032
12/29/2005 20:00	27.304	38.238	32.423	41.511		4.762	20.838	4.038
12/30/2005 0:00	27.294	38.212	32.387	41.527		4.789	20.855	4.03
12/30/2005 4:00	27.299	38.227	32.399	41.497		4.783	20.793	4.036
12/30/2005 8:00	27.321	38.272	32.429	41.518		4.774	20.749	4.038
12/30/2005 12:00	27.348	38.304	32.457	41.544		4.787	20.828	4.04
12/30/2005 16:00	27.351	38.306	32.467	41.583		4.789	20.938	4.044
12/30/2005 20:00	27.381	38.347	32.505	41.604		4.804	20.803	4.048
12/31/2005 0:00	27.403	38.385	32.536	41.594		4.797	20.699	4.055
12/31/2005 4:00	27.416	38.411	32.56	41.645		4.807	20.679	4.057
12/31/2005 8:00	27.423	38.42	32.572	41.636		4.799	20.693	4.057
12/31/2005 12:00	27.438	38.445	32.59	41.678		4.776	20.753	4.059
12/31/2005 16:00	27.393	38.351	32.534	41.645		4.789	21.016	4.055
12/31/2005 20:00	27.4	38.355	32.522	41.608		4.789	20.908	4.057
1/1/2006 0:00	27.381	38.33	32.499	41.622		4.814	20.931	4.052
1/1/2006 4:00	27.373	38.311	32.473	41.574		4.787	20.927	4.05
1/1/2006 8:00	27.351	38.279	32.439	41.588		4.785	20.944	4.046
1/1/2006 12:00	27.339	38.251	32.403	41.569		4.783	21.03	4.042
1/1/2006 16:00	27.321	38.189	32.352	41.507		4.768	20.906	4.039

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/1/2006 20:00	27.284	38.259	32.373	41.534		4.766	20.739	4.043
1/2/2006 0:00	27.359	38.296	32.393	41.544		4.79	20.743	4.05
1/2/2006 4:00	27.406	38.394	32.473	41.594		4.803	20.759	4.06
1/2/2006 8:00	27.468	38.513	32.572	41.643		4.807	20.745	4.073
1/2/2006 12:00	27.517	38.595	32.638	41.673		4.78	20.819	4.075
1/2/2006 16:00	27.557	38.644	32.696	41.749		4.805	20.811	4.086
1/2/2006 20:00	27.599	38.72	32.759	41.798		4.797	20.801	4.09
1/3/2006 0:00	27.609	38.72	32.783	41.828		4.803	20.799	4.09
1/3/2006 4:00	27.616	38.712	32.801	41.837		4.819	20.798	4.094
1/3/2006 8:00	27.604	38.695	32.797	41.807		4.842	20.821	4.094
1/3/2006 12:00	27.579	38.663	32.785	41.842		4.799	20.918	4.09
1/3/2006 16:00	27.527	38.537	32.694	41.779		4.823	21.136	4.081
1/3/2006 20:00	27.524	38.52	32.69	41.731		4.799	21.064	4.088
1/4/2006 0:00	27.547	38.548	32.708	41.765		4.793	20.999	4.092
1/4/2006 4:00	27.611	38.677	32.801	41.819		4.811	20.889	4.107
1/4/2006 8:00	27.663	38.763	32.871	41.853		4.825	20.856	4.111
1/4/2006 12:00	27.688	38.808	32.91	41.92		4.821	20.902	4.113
1/4/2006 16:00	27.69	38.789	32.921	41.932		4.817	21.138	4.113
1/4/2006 20:00	27.711	38.827	32.958	41.953		4.823	20.949	4.121
1/5/2006 0:00	27.728	38.853	32.984	41.973		4.831	20.838	4.119
1/5/2006 4:00	27.745	38.883	33.006	41.992		4.819	20.813	4.124
1/5/2006 8:00	27.735	38.891	33.032	42.008		4.831	20.906	4.128
1/5/2006 12:00	27.772	38.917	33.054	42.033		4.835	21.061	4.128
1/5/2006 16:00	27.777	38.908	33.066	42.033		4.85	21.181	4.132
1/5/2006 20:00	27.782	38.929	33.08	42.05		4.837	21.053	4.134
1/6/2006 0:00	27.79	38.951	33.094	42.063		4.833	20.985	4.134
1/6/2006 4:00	27.8	38.949	33.096	42.068		4.844	21.003	4.134
1/6/2006 8:00	27.787	38.928	33.092	42.036		4.844	21.024	4.136
1/6/2006 12:00	27.777	38.904	33.068	42.061		4.823	21.123	4.127
1/6/2006 16:00	27.71	38.776	32.988	42.006		4.844	21.187	4.119
1/6/2006 20:00	27.705	38.742	32.963	41.948		4.817	21.076	4.119
1/7/2006 0:00	27.685	38.707	32.935	41.955		4.86	21.049	4.117
1/7/2006 4:00	27.678	38.695	32.921	41.948		4.835	21.051	4.117
1/7/2006 8:00	27.683	38.691	32.913	41.904		4.831	21.04	4.117
1/7/2006 12:00	27.673	38.677	32.893	41.932		4.833	21.17	4.11
1/7/2006 16:00	27.616	38.588	32.833	41.867		4.827	21.141	4.101
1/7/2006 20:00	27.599	38.558	32.799	41.862		4.81	21.028	4.101
1/8/2006 0:00	27.579	38.5	32.758	41.83		4.818	21.018	4.095
1/8/2006 4:00	27.554	38.451	32.702	41.763		4.827	21.024	4.091
1/8/2006 8:00	27.564	38.486	32.722	41.786		4.849	20.955	4.099
1/8/2006 12:00	27.616	38.584	32.781	41.789		4.866	21.011	4.11
1/8/2006 16:00	27.68	38.707	32.867	41.846		4.847	20.986	4.122
1/8/2006 20:00	27.775	38.889	32.99	41.929		4.847	21.075	4.135
1/9/2006 0:00	27.837	39	33.09	42.031		4.87	21.108	4.143
1/9/2006 4:00	27.869	39.049	33.148	42.089		4.862	21.116	4.15
1/9/2006 8:00	27.924	39.115	33.209	42.135		4.858	21.191	4.158
1/9/2006 12:00	27.961	39.194	33.269	42.195		4.86	21.193	4.16
1/9/2006 16:00	27.963	39.16	33.281	42.202		4.858	21.317	4.16
1/9/2006 20:00	27.971	39.139	33.289	42.19		4.868	21.197	4.164
1/10/2006 0:00	27.971	39.122	33.293	42.202		4.858	21.108	4.162
1/10/2006 4:00	27.934	39.085	33.287	42.223		4.86	21.164	4.166

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/10/2006 8:00	27.929	39.008	33.247	42.193		4.866	21.23	4.162
1/10/2006 12:00	27.924	38.996	33.231	42.19		4.858	21.301	4.16
1/10/2006 16:00	27.876	38.891	33.17	42.114		4.834	21.414	4.151
1/10/2006 20:00	27.869	38.867	33.15	42.126		4.843	21.168	4.151
1/11/2006 0:00	27.857	38.852	33.136	42.112		4.849	21.152	4.149
1/11/2006 4:00	27.825	38.806	33.098	42.061		4.869	21.201	4.145
1/11/2006 8:00	27.79	38.767	33.066	42.063		4.849	21.228	4.143
1/11/2006 12:00	27.819	38.793	33.064	42.063		4.849	21.292	4.145
1/11/2006 16:00	27.797	38.759	33.044	42.047		4.849	21.259	4.14
1/11/2006 20:00	27.81	38.778	33.046	42.043		4.873	21.148	4.142
1/12/2006 0:00	27.812	38.803	33.042	42.043		4.851	21.104	4.14
1/12/2006 4:00	27.8	38.788	33.03	42.008		4.851	21.081	4.136
1/12/2006 8:00	27.79	38.759	33.012	42.02		4.869	21.085	4.136
1/12/2006 12:00	27.802	38.776	33.014	42.026		4.845	21.195	4.138
1/12/2006 16:00	27.797	38.773	33.016	41.987		4.853	21.35	4.142
1/12/2006 20:00	27.859	38.899	33.094	42.07		4.867	21.19	4.153
1/13/2006 0:00	27.911	38.981	33.161	42.119		4.865	21.126	4.161
1/13/2006 4:00	27.936	39.028	33.205	42.149		4.88	21.087	4.168
1/13/2006 8:00	27.976	39.122	33.271	42.193		4.875	21.143	4.178
1/13/2006 12:00	28.028	39.2	33.329	42.216		4.892	21.265	4.182
1/13/2006 16:00	28.035	39.205	33.349	42.262		4.89	21.377	4.184
1/13/2006 20:00	28.053	39.226	33.367	42.264		4.886	21.244	4.184
1/14/2006 0:00	28.063	39.23	33.385	42.308		4.89	21.155	4.187
1/14/2006 4:00	28.065	39.226	33.391	42.287		4.887	21.211	4.186
1/14/2006 8:00	28.06	39.205	33.391	42.322		4.892	21.207	4.191
1/14/2006 12:00	28.055	39.179	33.373	42.287		4.875	21.325	4.184
1/14/2006 16:00	28.006	39.047	33.313	42.269		4.871	21.401	4.178
1/14/2006 20:00	27.988	38.983	33.279	42.239		4.896	21.354	4.175
1/15/2006 0:00	27.968	38.919	33.243	42.216		4.875	21.366	4.171
1/15/2006 4:00	27.939	38.848	33.205	42.184		4.855	21.389	4.167
1/15/2006 8:00	27.916	38.795	33.182	42.154		4.879	21.397	4.165
1/15/2006 12:00	27.919	38.78	33.164	42.147		4.861	21.453	4.161
1/15/2006 16:00	27.897	38.716	33.138	42.087		4.848	21.348	4.158
1/15/2006 20:00	27.899	38.72	33.142	42.123		4.873	21.209	4.159
1/16/2006 0:00	27.907	38.716	33.142	42.091		4.854	21.145	4.158
1/16/2006 4:00	27.919	38.741	33.159	42.098		4.848	21.097	4.163
1/16/2006 8:00	27.934	38.806	33.209	42.126		4.844	21.157	4.175
1/16/2006 12:00	27.998	38.887	33.267	42.207		4.861	21.255	4.179
1/16/2006 16:00	28.028	38.921	33.309	42.204		4.865	21.238	4.188
1/16/2006 20:00	28.058	38.987	33.364	42.276		4.91	21.269	4.194
1/17/2006 0:00	28.095	39.03	33.402	42.278		4.889	21.267	4.196
1/17/2006 4:00	28.11	39.034	33.424	42.299		4.887	21.279	4.2
1/17/2006 8:00	28.123	39.032	33.43	42.341		4.891	21.233	4.2
1/17/2006 12:00	28.118	39.009	33.424	42.35		4.868	21.314	4.198
1/17/2006 16:00	28.095	38.955	33.402	42.322		4.873	21.484	4.203
1/17/2006 20:00	28.112	38.989	33.424	42.343		4.879	21.362	4.202
1/18/2006 0:00	28.122	38.994	33.433	42.345		4.885	21.304	4.204
1/18/2006 4:00	28.12	38.985	33.426	42.35		4.87	21.3	4.205
1/18/2006 8:00	28.115	38.955	33.427	42.32		4.87	21.322	4.206
1/18/2006 12:00	28.13	38.968	33.437	42.354		4.889	21.384	4.206
1/18/2006 16:00	28.11	38.917	33.402	42.338		4.892	21.61	4.202

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/18/2006 20:00	28.103	38.902	33.4	42.299		4.864	21.426	4.205
1/19/2006 0:00	28.108	38.893	33.401	42.297		4.881	21.356	4.204
1/19/2006 4:00	28.093	38.857	33.381	42.283		4.877	21.335	4.202
1/19/2006 8:00	28.097	38.853	33.383	42.278		4.899	21.322	4.202
1/19/2006 12:00	28.118	38.908	33.426	42.301		4.893	21.418	4.21
1/19/2006 16:00	28.157	38.966	33.47	42.364		4.899	21.538	4.216
1/19/2006 20:00	28.207	39.077	33.536	42.387		4.891	21.362	4.227
1/20/2006 0:00	28.241	39.137	33.576	42.431		4.92	21.325	4.227
1/20/2006 4:00	28.249	39.153	33.586	42.477		4.881	21.395	4.223
1/20/2006 8:00	28.252	39.173	33.603	42.498		4.891	21.394	4.229
1/20/2006 12:00	28.264	39.177	33.613	42.509		4.891	21.391	4.229
1/20/2006 16:00	28.252	39.156	33.609	42.505		4.901	21.409	4.231
1/20/2006 20:00	28.286	39.237	33.665	42.537		4.895	21.345	4.242
1/21/2006 0:00	28.324	39.294	33.701	42.542		4.918	21.38	4.246
1/21/2006 4:00	28.343	39.328	33.727	42.599		4.922	21.355	4.248
1/21/2006 8:00	28.351	39.331	33.741	42.616		4.916	21.349	4.25
1/21/2006 12:00	28.368	39.365	33.767	42.639		4.91	21.392	4.254
1/21/2006 16:00	28.361	39.331	33.761	42.643		4.945	21.583	4.252
1/21/2006 20:00	28.363	39.318	33.765	42.648		4.922	21.498	4.254
1/22/2006 0:00	28.371	39.318	33.775	42.659		4.93	21.426	4.256
1/22/2006 4:00	28.381	39.333	33.787	42.669		4.926	21.411	4.257
1/22/2006 8:00	28.386	39.326	33.798	42.671		4.907	21.401	4.263
1/22/2006 12:00	28.391	39.339	33.805	42.655		4.911	21.463	4.261
1/22/2006 16:00	28.361	39.277	33.775	42.634		4.911	21.713	4.258
1/22/2006 20:00	28.388	39.301	33.808	42.652		4.904	21.618	4.265
1/23/2006 0:00	28.383	39.299	33.807	42.687		4.895	21.581	4.262
1/23/2006 4:00	28.386	39.284	33.805	42.694		4.899	21.572	4.262
1/23/2006 8:00	28.378	39.264	33.799	42.685		4.899	21.577	4.262
1/23/2006 12:00	28.386	39.275	33.8	42.694		4.909	21.608	4.262
1/23/2006 16:00	28.356	39.188	33.751	42.657		4.917	21.798	4.258
1/23/2006 20:00	28.338	39.156	33.735	42.599		4.897	21.711	4.258
1/24/2006 0:00	28.321	39.139	33.721	42.62		4.889	21.653	4.252
1/24/2006 4:00	28.329	39.149	33.729	42.616		4.913	21.637	4.256
1/24/2006 8:00	28.353	39.215	33.779	42.616		4.926	21.552	4.264
1/24/2006 12:00	28.376	39.299	33.83	42.692		4.903	21.639	4.27
1/24/2006 16:00	28.403	39.292	33.824	42.696		4.924	21.874	4.268
1/24/2006 20:00	28.435	39.373	33.88	42.701		4.899	21.639	4.281
1/25/2006 0:00	28.463	39.439	33.916	42.74		4.919	21.448	4.283
1/25/2006 4:00	28.47	39.463	33.934	42.793		4.913	21.541	4.283
1/25/2006 8:00	28.458	39.469	33.942	42.78		4.909	21.584	4.283
1/25/2006 12:00	28.502	39.512	33.97	42.837		4.915	21.659	4.287
1/25/2006 16:00	28.477	39.452	33.936	42.819		4.926	21.843	4.281
1/25/2006 20:00	28.465	39.418	33.918	42.81		4.961	21.752	4.28
1/26/2006 0:00	28.46	39.399	33.91	42.8		4.971	21.648	4.279
1/26/2006 4:00	28.448	39.38	33.908	42.791		4.952	21.622	4.281
1/26/2006 8:00	28.445	39.372	33.902	42.786		4.944	21.624	4.283
1/26/2006 12:00	28.453	39.375	33.9	42.789		4.924	21.764	4.28
1/26/2006 16:00	28.418	39.311	33.864	42.763		4.938	21.783	4.275
1/26/2006 20:00	28.415	39.311	33.866	42.752		4.975	21.75	4.278
1/27/2006 0:00	28.438	39.335	33.874	42.759		4.934	21.725	4.28
1/27/2006 4:00	28.436	39.335	33.884	42.763		4.942	21.669	4.28

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
1/27/2006 8:00	28.425	39.358	33.898	42.773		4.946	21.626	4.285
1/27/2006 12:00	28.51	39.375	33.91	42.793		4.95	21.744	4.285
1/27/2006 16:00	28.465	39.322	33.876	42.77		4.944	21.874	4.278
1/27/2006 20:00	28.458	39.328	33.882	42.761		4.954	21.723	4.282
1/28/2006 0:00	28.47	39.339	33.89	42.738		4.948	21.626	4.284
1/28/2006 4:00	28.451	39.311	33.864	42.756		4.942	21.725	4.276
1/28/2006 8:00	28.406	39.239	33.843	42.736		4.924	21.729	4.267
1/28/2006 12:00	28.369	39.156	33.816	42.713		4.886	21.681	4.261
1/28/2006 16:00	28.309	39.028	33.765	42.676		4.911	21.729	4.243
1/28/2006 20:00	28.289	38.981	33.775	42.625		4.911	21.59	4.241
1/29/2006 0:00	28.264	38.953	33.767	42.643		4.889	21.563	4.231
1/29/2006 4:00	28.262	38.976	33.805	42.627		4.899	21.454	4.226
1/29/2006 8:00	28.269	39.01	33.835	42.683		4.911	21.396	4.222
1/29/2006 12:00	28.289	39.051	33.866	42.683		4.915	21.495	4.216
1/29/2006 16:00	28.277	39.01	33.862	42.715		4.924	21.662	4.21
1/29/2006 20:00	28.299	39.077	33.908	42.719		4.896	21.534	4.209
1/30/2006 0:00	28.307	39.089	33.928	42.773		4.922	21.451	4.205
1/30/2006 4:00	28.312	39.1	33.944	42.786		4.924	21.452	4.203
1/30/2006 8:00	28.319	39.115	33.966	42.8		4.929	21.474	4.205
1/30/2006 12:00	28.354	39.168	33.998	42.835		4.927	21.576	4.207
1/30/2006 16:00	28.326	39.156	34	42.844		4.964	21.78	4.203
1/30/2006 20:00	28.352	39.168	34.012	42.83		4.94	21.638	4.205
1/31/2006 0:00	28.354	39.143	33.998	42.86		4.95	21.557	4.2
1/31/2006 4:00	28.346	39.115	33.984	42.856		4.929	21.534	4.196
1/31/2006 8:00	28.322	39.068	33.962	42.837		4.959	21.565	4.194
1/31/2006 12:00	28.295	39.038	33.944	42.828		4.932	21.731	4.192
1/31/2006 16:00	28.272	38.944	33.89	42.796		4.93	21.776	4.181
1/31/2006 20:00	28.272	38.959	33.91	42.786		4.96	21.658	4.191
2/1/2006 0:00	28.295	38.993	33.926	42.796		4.977	21.569	4.191
2/1/2006 4:00	28.324	39.062	33.962	42.8		4.929	21.565	4.193
2/1/2006 8:00	28.324	39.079	33.984	42.847		4.954	21.54	4.197
2/1/2006 12:00	28.344	39.096	33.992	42.86		4.952	21.687	4.199
2/1/2006 16:00	28.329	39.049	33.96	42.849		4.944	21.842	4.195
2/1/2006 20:00	28.329	39.045	33.964	42.847		4.96	21.722	4.199
2/2/2006 0:00	28.322	39.032	33.956	42.817		4.952	21.689	4.197
2/2/2006 4:00	28.317	39.006	33.944	42.807		4.952	21.677	4.199
2/2/2006 8:00	28.302	38.989	33.928	42.821		4.954	21.656	4.195
2/2/2006 12:00	28.307	38.993	33.924	42.789		4.931	21.77	4.197
2/2/2006 16:00	28.302	38.978	33.924	42.786		4.973	21.857	4.199
2/2/2006 20:00	28.322	39.025	33.958	42.81		4.946	21.727	4.205
2/3/2006 0:00	28.342	39.068	33.982	42.853		4.958	21.654	4.209
2/3/2006 4:00	28.369	39.121	34.018	42.877		4.973	21.586	4.217
2/3/2006 8:00	28.402	39.205	34.069	42.909		4.975	21.646	4.227
2/3/2006 12:00	28.441	39.282	34.109	42.953		4.969	21.701	4.233
2/3/2006 16:00	28.448	39.282	34.107	42.974		4.971	21.863	4.23
2/3/2006 20:00	28.474	39.335	34.145	42.999		4.969	21.689	4.239
2/4/2006 0:00	28.491	39.375	34.171	42.994		4.977	21.555	4.245
2/4/2006 4:00	28.503	39.393	34.183	43.041		4.989	21.71	4.247
2/4/2006 8:00	28.513	39.414	34.199	43.061		4.96	21.666	4.251
2/4/2006 12:00	28.515	39.427	34.207	43.048		4.952	21.761	4.253
2/4/2006 16:00	28.513	39.371	34.171	43.068		4.979	21.97	4.251

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
2/4/2006 20:00	28.508	39.356	34.169	43.078		4.977	21.85	4.251
2/5/2006 0:00	28.496	39.352	34.161	43.073		4.979	21.809	4.251
2/5/2006 4:00	28.494	39.331	34.149	43.068		4.975	21.821	4.253
2/5/2006 8:00	28.489	39.322	34.147	43.029		4.991	21.828	4.257
2/5/2006 12:00	28.498	39.367	34.173	43.073		4.95	21.855	4.261
2/5/2006 16:00	28.498	39.335	34.151	43.068		4.96	22.055	4.257
2/5/2006 20:00	28.533	39.41	34.213	43.089		4.958	21.815	4.271
2/6/2006 0:00	28.553	39.469	34.243	43.117		4.971	21.751	4.271
2/6/2006 4:00	28.57	39.499	34.259	43.142		4.966	21.722	4.273
2/6/2006 8:00	28.585	39.525	34.284	43.161		4.96	21.681	4.282
2/6/2006 12:00	28.618	39.58	34.318	43.163		4.977	21.708	4.284
2/6/2006 16:00	28.605	39.55	34.297	43.2		4.983	21.976	4.282
2/6/2006 20:00	28.62	39.561	34.316	43.214		5.043	21.85	4.286
2/7/2006 0:00	28.613	39.553	34.316	43.221		5.006	21.809	4.286
2/7/2006 4:00	28.618	39.561	34.324	43.228		5.018	21.765	4.29
2/7/2006 8:00	28.628	39.568	34.332	43.209		5.012	21.716	4.292
2/7/2006 12:00	28.642	39.591	34.346	43.251		5.004	21.786	4.293
2/7/2006 16:00	28.613	39.54	34.302	43.219		5.018	22.08	4.285
2/7/2006 20:00	28.615	39.516	34.294	43.212		5.003	22.039	4.29
2/8/2006 0:00	28.606	39.501	34.289	43.23		4.991	21.982	4.292
2/8/2006 4:00	28.61	39.516	34.306	43.232		4.993	21.914	4.296
2/8/2006 8:00	28.642	39.57	34.352	43.255		4.995	21.827	4.302
2/8/2006 12:00	28.667	39.636	34.39	43.255		5.008	21.751	4.307
2/8/2006 16:00	28.667	39.625	34.374	43.292		4.985	21.988	4.303
2/8/2006 20:00	28.682	39.651	34.398	43.279		5.001	21.838	4.31
2/9/2006 0:00	28.702	39.691	34.42	43.304		4.995	21.732	4.312
2/9/2006 4:00	28.672	39.67	34.398	43.313		4.981	21.891	4.307
2/9/2006 8:00	28.663	39.597	34.354	43.295		4.977	21.989	4.305
2/9/2006 12:00	28.65	39.561	34.324	43.286		4.99	22.084	4.301
2/9/2006 16:00	28.606	39.45	34.265	43.265		4.993	22.129	4.295
2/9/2006 20:00	28.608	39.476	34.287	43.249		5.018	22.11	4.3
2/10/2006 0:00	28.628	39.538	34.324	43.235		4.988	21.98	4.305
2/10/2006 4:00	28.642	39.557	34.34	43.274		5.004	21.947	4.307
2/10/2006 8:00	28.652	39.58	34.36	43.26		5.014	21.912	4.315
2/10/2006 12:00	28.675	39.608	34.376	43.304		4.983	21.997	4.315
2/10/2006 16:00	28.663	39.578	34.354	43.276		4.983	22.164	4.314
2/10/2006 20:00	28.687	39.628	34.404	43.297		5.01	22.005	4.322
2/11/2006 0:00	28.705	39.659	34.418	43.343		5.01	21.885	4.322
2/11/2006 4:00	28.695	39.653	34.412	43.357		5.016	21.873	4.32
2/11/2006 8:00	28.707	39.659	34.43	43.334		5.008	21.858	4.326
2/11/2006 12:00	28.732	39.715	34.462	43.385		5.004	21.827	4.334
2/11/2006 16:00	28.737	39.719	34.462	43.399		4.996	21.879	4.331
2/11/2006 20:00	28.747	39.728	34.468	43.378		5	21.844	4.332
2/12/2006 0:00	28.74	39.706	34.448	43.41		5.037	21.904	4.329
2/12/2006 4:00	28.717	39.655	34.412	43.364		5.033	21.939	4.327
2/12/2006 8:00	28.7	39.615	34.394	43.376		5.022	22.015	4.328
2/12/2006 12:00	28.735	39.698	34.464	43.394		5.018	21.988	4.339
2/12/2006 16:00	28.737	39.749	34.492	43.392		5.016	22.021	4.343
2/12/2006 20:00	28.772	39.8	34.519	43.443		5.016	21.868	4.347
2/13/2006 0:00	28.737	39.783	34.494	43.452		5.012	21.88	4.34
2/13/2006 4:00	28.755	39.726	34.452	43.445		5.008	21.934	4.333

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
2/13/2006 8:00	28.722	39.644	34.406	43.41		5.02	22.046	4.331
2/13/2006 12:00	28.71	39.595	34.394	43.387		4.998	22.203	4.333
2/13/2006 16:00	28.685	39.55	34.36	43.325		5.012	22.147	4.324
2/13/2006 20:00	28.705	39.585	34.402	43.352		5.023	22.017	4.337
2/14/2006 0:00	28.715	39.625	34.414	43.362		4.998	21.887	4.334
2/14/2006 4:00	28.705	39.6	34.39	43.325		5.002	21.912	4.329
2/14/2006 8:00	28.695	39.576	34.386	43.327		4.998	21.941	4.334
2/14/2006 12:00	28.702	39.591	34.392	43.311		4.975	22.092	4.335
2/14/2006 16:00	28.685	39.533	34.354	43.32		4.988	22.162	4.329
2/14/2006 20:00	28.702	39.583	34.4	43.329		4.988	22	4.339
2/15/2006 0:00	28.752	39.717	34.482	43.373		4.996	21.909	4.35
2/15/2006 4:00	28.769	39.77	34.509	43.403		5.008	21.819	4.352
2/15/2006 8:00	28.764	39.768	34.507	43.404		5.006	21.887	4.346
2/15/2006 12:00	28.797	39.8	34.527	43.44		5.008	21.899	4.351
2/15/2006 16:00	28.779	39.74	34.486	43.438		5.004	22.013	4.346
2/15/2006 20:00	28.772	39.738	34.503	43.41		5.014	21.984	4.354
2/16/2006 0:00	28.784	39.76	34.503	43.445		5.031	21.965	4.347
2/16/2006 4:00	28.774	39.721	34.474	43.438		5.01	22.003	4.346
2/16/2006 8:00	28.769	39.715	34.476	43.431		4.996	22.005	4.347
2/16/2006 12:00	28.809	39.796	34.545	43.454		5.012	21.849	4.363
2/16/2006 16:00	28.851	39.896	34.603	43.459		5.018	21.841	4.372
2/16/2006 20:00	28.908	40.061	34.702	43.519		5.021	21.979	4.385
2/17/2006 0:00	28.956	40.161	34.75	43.579		5.035	21.965	4.384
2/17/2006 4:00	28.978	40.204	34.772	43.628		5.018	22.025	4.385
2/17/2006 8:00	28.985	40.208	34.792	43.687		5.041	21.953	4.397
2/17/2006 12:00	29.015	40.283	34.834	43.708		5.035	21.924	4.397
2/17/2006 16:00	29.005	40.223	34.796	43.724		5.041	22.021	4.391
2/17/2006 20:00	29.01	40.232	34.824	43.78		5.089	21.899	4.399
2/18/2006 0:00	29.01	40.227	34.824	43.764		5.06	21.876	4.396
2/18/2006 4:00	29.02	40.225	34.834	43.808		5.072	21.835	4.399
2/18/2006 8:00	29.02	40.221	34.838	43.791		5.064	21.828	4.403
2/18/2006 12:00	29.032	40.225	34.842	43.805		5.058	21.95	4.4
2/18/2006 16:00	29.007	40.14	34.784	43.819		5.041	22.244	4.396
2/18/2006 20:00	28.992	40.103	34.778	43.81		5.064	22.232	4.398
2/19/2006 0:00	28.992	40.097	34.78	43.803		5.033	22.194	4.4
2/19/2006 4:00	28.985	40.08	34.77	43.794		5.029	22.172	4.397
2/19/2006 8:00	28.97	40.046	34.756	43.748		5.053	22.228	4.397
2/19/2006 12:00	28.973	40.037	34.75	43.769		5.033	22.368	4.396
2/19/2006 16:00	28.946	39.952	34.7	43.718		5.043	22.449	4.388
2/19/2006 20:00	28.933	39.935	34.698	43.704		5.023	22.391	4.388
2/20/2006 0:00	28.933	39.948	34.706	43.727		5.023	22.368	4.387
2/20/2006 4:00	28.928	39.927	34.693	43.711		5.031	22.401	4.385
2/20/2006 8:00	28.921	39.909	34.685	43.664		5.023	22.37	4.386
2/20/2006 12:00	28.921	39.903	34.675	43.655		5.025	22.525	4.387
2/20/2006 16:00	28.901	39.839	34.637	43.632		5.047	22.468	4.379
2/20/2006 20:00	28.898	39.843	34.651	43.621		5.039	22.24	4.385
2/21/2006 0:00	28.916	39.901	34.687	43.655		5.025	22.104	4.389
2/21/2006 4:00	28.928	39.928	34.697	43.66		5.033	22.079	4.389
2/21/2006 8:00	28.911	39.935	34.701	43.662		5	22.103	4.391
2/21/2006 12:00	28.936	39.939	34.698	43.632		5.012	22.211	4.391
2/21/2006 16:00	28.913	39.865	34.649	43.644		4.987	22.478	4.382

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
2/21/2006 20:00	28.906	39.873	34.669	43.632		5.058	22.329	4.391
2/22/2006 0:00	28.931	39.931	34.708	43.644		5.037	22.11	4.401
2/22/2006 4:00	28.946	39.954	34.719	43.653		5.035	22.091	4.396
2/22/2006 8:00	28.961	39.98	34.737	43.667		5.033	22.054	4.401
2/22/2006 12:00	28.973	40.008	34.747	43.681		5.021	22.147	4.4
2/22/2006 16:00	28.961	39.946	34.709	43.671		5.039	22.508	4.395
2/22/2006 20:00	28.968	39.995	34.756	43.657		5.062	22.325	4.408
2/23/2006 0:00	29	40.072	34.796	43.706		5.058	22.112	4.412
2/23/2006 4:00	29.008	40.088	34.8	43.718		5.06	22.093	4.409
2/23/2006 8:00	29.03	40.146	34.844	43.715		5.039	22.023	4.42
2/23/2006 12:00	29.067	40.223	34.886	43.775		5.031	22.195	4.421
2/23/2006 16:00	29.07	40.204	34.868	43.789		5.037	22.482	4.42
2/23/2006 20:00	29.067	40.193	34.872	43.801		5.052	22.345	4.422
2/24/2006 0:00	29.07	40.202	34.882	43.812		5.031	22.171	4.423
2/24/2006 4:00	29.06	40.168	34.856	43.782		5.025	22.167	4.418
2/24/2006 8:00	29.05	40.134	34.842	43.805		5.019	22.2	4.418
2/24/2006 12:00	29.05	40.091	34.818	43.805		5.081	22.417	4.418
2/24/2006 16:00	29.015	40.042	34.79	43.773		5.083	22.517	4.414
2/24/2006 20:00	29.037	40.078	34.828	43.778		5.085	22.366	4.425
2/25/2006 0:00	29.077	40.195	34.908	43.81		5.081	22.132	4.436
2/25/2006 4:00	29.119	40.302	34.967	43.849		5.058	22.184	4.441
2/25/2006 8:00	29.147	40.388	35.013	43.888		5.091	22.076	4.446
2/25/2006 12:00	29.159	40.454	35.045	43.923		5.103	22.287	4.446
2/25/2006 16:00	29.171	40.418	35.019	43.944		5.099	22.529	4.442
2/25/2006 20:00	29.179	40.428	35.037	43.96		5.073	22.407	4.447
2/26/2006 0:00	29.194	40.45	35.055	43.951		5.073	22.277	4.452
2/26/2006 4:00	29.194	40.447	35.055	43.992		5.073	22.213	4.449
2/26/2006 8:00	29.186	40.428	35.051	43.999		5.11	22.202	4.451
2/26/2006 12:00	29.184	40.4	35.031	43.969		5.089	22.386	4.447
2/26/2006 16:00	29.142	40.285	34.959	43.972		5.046	22.479	4.435
2/26/2006 20:00	29.127	40.225	34.934	43.946		5.077	22.413	4.436
2/27/2006 0:00	29.102	40.183	34.906	43.919		5.037	22.322	4.43
2/27/2006 4:00	29.075	40.117	34.872	43.888		5.058	22.401	4.423
2/27/2006 8:00	29.065	40.099	34.866	43.87		5.042	22.451	4.426
2/27/2006 12:00	29.075	40.119	34.878	43.861		5.056	22.463	4.425
2/27/2006 16:00	29.055	40.085	34.858	43.845		5.063	22.44	4.419
2/27/2006 20:00	29.078	40.134	34.9	43.815		5.021	22.279	4.433
2/28/2006 0:00	29.087	40.168	34.912	43.847		5.057	22.206	4.43
2/28/2006 4:00	29.097	40.189	34.926	43.854		5.075	22.204	4.432
2/28/2006 8:00	29.1	40.196	34.936	43.856		5.075	22.225	4.435
2/28/2006 12:00	29.102	40.193	34.928	43.858		5.059	22.428	4.431
2/28/2006 16:00	29.09	40.151	34.902	43.847		5.03	22.506	4.427
2/28/2006 20:00	29.092	40.144	34.906	43.84		5.083	22.417	4.433
3/1/2006 0:00	29.097	40.149	34.91	43.81		5.085	22.304	4.433
3/1/2006 4:00	29.082	40.116	34.89	43.829		5.05	22.31	4.429
3/1/2006 8:00	29.078	40.108	34.89	43.819		5.056	22.306	4.43
3/1/2006 12:00	29.105	40.168	34.932	43.801		5.034	22.446	4.438
3/1/2006 16:00	29.117	40.204	34.952	43.84		5.065	22.643	4.445
3/1/2006 20:00	29.164	40.339	35.045	43.889		5.073	22.329	4.463
3/2/2006 0:00	29.207	40.443	35.093	43.93		5.102	22.238	4.462
3/2/2006 4:00	29.224	40.477	35.105	43.958		5.083	22.217	4.464

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/2/2006 8:00	29.239	40.509	35.131	43.983		5.094	22.173	4.472
3/2/2006 12:00	29.264	40.573	35.164	44.02		5.091	22.448	4.474
3/2/2006 16:00	29.266	40.56	35.156	44.011		5.079	22.583	4.472
3/2/2006 20:00	29.276	40.584	35.178	44.032		5.127	22.369	4.476
3/3/2006 0:00	29.293	40.616	35.198	44.087		5.1	22.305	4.477
3/3/2006 4:00	29.303	40.641	35.218	44.078		5.112	22.268	4.481
3/3/2006 8:00	29.301	40.655	35.23	44.126		5.11	22.223	4.483
3/3/2006 12:00	29.326	40.665	35.232	44.145		5.124	22.44	4.482
3/3/2006 16:00	29.311	40.612	35.196	44.143		5.11	22.682	4.475
3/3/2006 20:00	29.298	40.586	35.198	44.14		5.112	22.554	4.481
3/4/2006 0:00	29.298	40.584	35.198	44.14		5.089	22.436	4.478
3/4/2006 4:00	29.296	40.582	35.206	44.117		5.094	22.409	4.481
3/4/2006 8:00	29.298	40.597	35.22	44.124		5.115	22.382	4.483
3/4/2006 12:00	29.289	40.569	35.205	44.117		5.129	22.461	4.477
3/4/2006 16:00	29.269	40.507	35.166	44.133		5.098	22.612	4.474
3/4/2006 20:00	29.261	40.465	35.158	44.085		5.094	22.642	4.474
3/5/2006 0:00	29.261	40.462	35.166	44.113		5.096	22.624	4.474
3/5/2006 4:00	29.239	40.413	35.133	44.09		5.09	22.696	4.464
3/5/2006 8:00	29.241	40.42	35.164	44.062		5.086	22.628	4.475
3/5/2006 12:00	29.254	40.428	35.196	44.099		5.082	22.721	4.483
3/5/2006 16:00	29.261	40.43	35.212	44.09		5.057	22.643	4.486
3/5/2006 20:00	29.274	40.471	35.246	44.143		5.108	22.46	4.488
3/6/2006 0:00	29.289	40.49	35.258	44.129		5.078	22.349	4.488
3/6/2006 4:00	29.279	40.469	35.252	44.161		5.102	22.31	4.489
3/6/2006 8:00	29.289	40.501	35.278	44.173		5.094	22.295	4.494
3/6/2006 12:00	29.31	40.531	35.294	44.189		5.094	22.518	4.493
3/6/2006 16:00	29.296	40.488	35.264	44.159		5.073	22.765	4.487
3/6/2006 20:00	29.291	40.479	35.274	44.191		5.1	22.5	4.491
3/7/2006 0:00	29.293	40.477	35.28	44.201		5.086	22.406	4.491
3/7/2006 4:00	29.279	40.445	35.258	44.187		5.076	22.394	4.486
3/7/2006 8:00	29.261	40.407	35.236	44.145		5.076	22.436	4.479
3/7/2006 12:00	29.224	40.304	35.172	44.108		5.084	22.676	4.466
3/7/2006 16:00	29.197	40.251	35.139	44.08		5.069	22.698	4.459
3/7/2006 20:00	29.202	40.255	35.162	44.094		5.071	22.645	4.47
3/8/2006 0:00	29.209	40.279	35.174	44.064		5.08	22.521	4.467
3/8/2006 4:00	29.194	40.247	35.151	44.064		5.064	22.543	4.461
3/8/2006 8:00	29.179	40.204	35.133	44.062		5.073	22.683	4.455
3/8/2006 12:00	29.154	40.157	35.121	44.018		5.076	22.68	4.452
3/8/2006 16:00	29.122	40.05	35.073	44.016		5.13	22.671	4.445
3/8/2006 20:00	29.157	40.138	35.156	44.004		5.105	22.37	4.461
3/9/2006 0:00	29.172	40.183	35.18	44.041		5.084	22.28	4.457
3/9/2006 4:00	29.15	40.138	35.151	44.034		5.076	22.317	4.453
3/9/2006 8:00	29.162	40.161	35.167	44.034		5.072	22.313	4.45
3/9/2006 12:00	29.162	40.153	35.172	44.039		5.084	22.35	4.456
3/9/2006 16:00	29.137	40.106	35.145	43.999		5.084	22.475	4.451
3/9/2006 20:00	29.177	40.18	35.205	44.018		5.093	22.34	4.465
3/10/2006 0:00	29.204	40.249	35.244	44.08		5.09	22.338	4.467
3/10/2006 4:00	29.207	40.275	35.258	44.064		5.078	22.324	4.469
3/10/2006 8:00	29.236	40.317	35.286	44.113		5.084	22.371	4.474
3/10/2006 12:00	29.249	40.343	35.294	44.133		5.113	22.57	4.469
3/10/2006 16:00	29.224	40.289	35.262	44.134		5.111	22.725	4.467

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/10/2006 20:00	29.246	40.294	35.28	44.111		5.138	22.621	4.469
3/11/2006 0:00	29.249	40.306	35.286	44.15		5.103	22.475	4.469
3/11/2006 4:00	29.241	40.272	35.266	44.117		5.109	22.479	4.465
3/11/2006 8:00	29.266	40.332	35.318	44.163		5.099	22.443	4.478
3/11/2006 12:00	29.303	40.433	35.372	44.196		5.126	22.522	4.485
3/11/2006 16:00	29.311	40.456	35.372	44.187		5.126	22.681	4.482
3/11/2006 20:00	29.331	40.503	35.402	44.235		5.122	22.526	4.491
3/12/2006 0:00	29.348	40.544	35.413	44.231		5.099	22.402	4.489
3/12/2006 4:00	29.341	40.52	35.404	44.238		5.124	22.398	4.484
3/12/2006 8:00	29.326	40.473	35.364	44.263		5.128	22.443	4.475
3/12/2006 12:00	29.286	40.375	35.31	44.21		5.132	22.675	4.469
3/12/2006 16:00	29.262	40.289	35.27	44.208		5.109	22.766	4.462
3/12/2006 20:00	29.239	40.251	35.264	44.191		5.078	22.754	4.463
3/13/2006 0:00	29.262	40.304	35.306	44.161		5.112	22.648	4.469
3/13/2006 4:00	29.274	40.356	35.342	44.205		5.081	22.543	4.475
3/13/2006 8:00	29.311	40.465	35.411	44.242		5.085	22.433	4.487
3/13/2006 12:00	29.363	40.582	35.463	44.279		5.149	22.46	4.495
3/13/2006 16:00	29.381	40.618	35.477	44.316		5.167	22.654	4.494
3/13/2006 20:00	29.403	40.663	35.503	44.341		5.142	22.427	4.5
3/14/2006 0:00	29.428	40.71	35.523	44.372		5.131	22.458	4.501
3/14/2006 4:00	29.42	40.704	35.517	44.362		5.111	22.481	4.497
3/14/2006 8:00	29.438	40.719	35.535	44.406		5.101	22.487	4.502
3/14/2006 12:00	29.45	40.723	35.527	44.422		5.107	22.726	4.5
3/14/2006 16:00	29.42	40.657	35.489	44.415		5.102	22.853	4.493
3/14/2006 20:00	29.423	40.676	35.517	44.42		5.085	22.683	4.503
3/15/2006 0:00	29.44	40.716	35.545	44.434		5.161	22.512	4.503
3/15/2006 4:00	29.445	40.71	35.539	44.439		5.143	22.538	4.5
3/15/2006 8:00	29.443	40.702	35.537	44.443		5.128	22.501	4.501
3/15/2006 12:00	29.42	40.648	35.489	44.422		5.163	22.826	4.492
3/15/2006 16:00	29.371	40.518	35.421	44.388		5.12	22.857	4.481
3/15/2006 20:00	29.353	40.482	35.423	44.358		5.137	22.788	4.484
3/16/2006 0:00	29.356	40.482	35.415	44.346		5.114	22.683	4.477
3/16/2006 4:00	29.339	40.441	35.398	44.298		5.141	22.673	4.475
3/16/2006 8:00	29.383	40.563	35.495	44.353		5.135	22.555	4.496
3/16/2006 12:00	29.43	40.704	35.569	44.402		5.12	22.582	4.507
3/16/2006 16:00	29.46	40.761	35.589	44.434		5.137	22.702	4.509
3/16/2006 20:00	29.487	40.821	35.62	44.464		5.123	22.544	4.515
3/17/2006 0:00	29.505	40.855	35.634	44.464		5.121	22.596	4.517
3/17/2006 4:00	29.492	40.868	35.64	44.485		5.145	22.53	4.517
3/17/2006 8:00	29.512	40.874	35.652	44.531		5.141	22.542	4.52
3/17/2006 12:00	29.534	40.904	35.662	44.547		5.147	22.561	4.52
3/17/2006 16:00	29.51	40.832	35.614	44.543		5.143	22.786	4.513
3/17/2006 20:00	29.492	40.808	35.613	44.508		5.15	22.815	4.513
3/18/2006 0:00	29.507	40.823	35.632	44.538		5.133	22.722	4.52
3/18/2006 4:00	29.502	40.815	35.62	44.536		5.156	22.733	4.514
3/18/2006 8:00	29.507	40.825	35.644	44.54		5.129	22.693	4.519
3/18/2006 12:00	29.507	40.821	35.634	44.547		5.147	22.764	4.52
3/18/2006 16:00	29.495	40.778	35.609	44.533		5.176	22.898	4.514
3/18/2006 20:00	29.492	40.769	35.611	44.526		5.166	22.894	4.515
3/19/2006 0:00	29.495	40.781	35.628	44.526		5.139	22.855	4.52
3/19/2006 4:00	29.502	40.783	35.622	44.501		5.1	22.826	4.514

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/19/2006 8:00	29.49	40.774	35.628	44.526		5.123	22.782	4.516
3/19/2006 12:00	29.5	40.785	35.634	44.496		5.125	22.849	4.516
3/19/2006 16:00	29.49	40.748	35.611	44.517		5.119	22.94	4.514
3/19/2006 20:00	29.47	40.734	35.622	44.513		5.138	22.838	4.517
3/20/2006 0:00	29.45	40.702	35.618	44.513		5.147	22.776	4.51
3/20/2006 4:00	29.406	40.616	35.597	44.466		5.142	22.782	4.508
3/20/2006 8:00	29.363	40.548	35.573	44.489		5.103	22.747	4.505
3/20/2006 12:00	29.304	40.439	35.527	44.469		6.689	22.807	4.492
3/20/2006 16:00	29.242	40.341	35.525	44.42		5.479	22.704	4.569
3/20/2006 20:00	29.195	40.3	35.541	44.453		5.336	22.501	4.496
3/21/2006 0:00	29.152	40.266	35.521	44.459		5.289	22.412	4.476
3/21/2006 4:00	29.12	40.227	35.523	44.473		5.248	22.389	4.466
3/21/2006 8:00	29.12	40.262	35.581	44.503		5.246	22.283	4.46
3/21/2006 12:00	29.118		35.626	44.538		5.238	22.232	4.448
3/21/2006 16:00	29.091	39.893	35.646			5.219	22.194	4.431
3/21/2006 20:00	29.039	39.598	35.632	44.865		5.157	22.05	4.417
3/22/2006 0:00	28.992	39.474	35.614	44.809		5.153	22.012	4.402
3/22/2006 4:00	28.967	39.427	35.62	44.779		5.17	22.031	4.391
3/22/2006 8:00	28.945	39.378	35.642	44.751		5.12	22.064	4.38
3/22/2006 12:00	28.936	39.335	35.656	44.697		5.139	22.608	4.365
3/22/2006 16:00		39.265	35.628	44.67		4.898	22.615	4.345
3/22/2006 20:00	28.88	39.203	35.616	44.66		4.782	22.342	4.334
3/23/2006 0:00	28.756	39.162	35.605	44.665		4.857	22.219	4.325
3/23/2006 4:00	28.7	39.1	35.597	44.624		4.931	22.207	4.308
3/23/2006 8:00	28.652	39.06	35.609	44.612		4.985	22.182	4.296
3/23/2006 12:00	28.641	39.028	35.689	44.603		5.049	22.302	4.279
3/23/2006 16:00	28.604	38.96	35.607	44.628		5.046	22.49	4.251
3/23/2006 20:00	28.537	38.9	35.593	44.612		5.042	22.319	4.197
3/24/2006 0:00	28.5	38.857	35.575	44.6		5.039	22.18	4.138
3/24/2006 4:00	28.458	38.791	35.547	44.559		5.016	22.149	4.093
3/24/2006 8:00	28.426	38.759	35.541	44.543		5.075	22.124	4.06
3/24/2006 12:00	28.409	38.744	35.539	44.573		5.074	22.267	4.035
3/24/2006 16:00	28.381	38.673	35.503	44.529		5.08	22.383	3.983
3/24/2006 20:00	28.374	38.659	35.505	44.559		5.09	22.248	3.903
3/25/2006 0:00	28.364	38.65	35.507	44.531		5.092	22.13	3.862
3/25/2006 4:00	28.349	38.624	35.495	44.554		5.096	22.093	3.84
3/25/2006 8:00	28.357	38.637	35.505	44.556		5.119	22.041	3.832
3/25/2006 12:00	28.334	38.629	35.493	44.563		5.105	22.197	3.824
3/25/2006 16:00	28.312	38.569	35.454	44.552		5.109	22.408	3.763
3/25/2006 20:00	28.302	38.515	35.43	44.508		5.125	22.261	3.698
3/26/2006 0:00	28.29	38.509	35.428	44.536		5.109	22.046	3.698
3/26/2006 4:00	28.27	38.46	35.396	44.522		5.111	22.013	3.695
3/26/2006 8:00	28.26	38.441	35.386	44.515		5.099	21.994	3.701
3/26/2006 12:00	28.235	38.39	35.348	44.496		5.101	22.263	3.692
3/26/2006 16:00	28.186	38.294	35.294	44.439		5.111	22.296	3.639
3/26/2006 20:00	28.178	38.285	35.304	44.448		5.097	22.186	3.635
3/27/2006 0:00	28.185	38.319	35.292	44.446		5.115	22.083	3.644
3/27/2006 4:00	28.166	38.289	35.252	44.436		5.088	22.077	3.643
3/27/2006 8:00	28.156	38.268	35.232	44.395		5.097	22.023	3.652
3/27/2006 12:00	28.175	38.289	35.235	44.418		5.089	22.097	3.667
3/27/2006 16:00	28.198	38.336	35.247	44.402		5.11	22.058	3.674

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
3/27/2006 20:00	28.235	38.406	35.266	44.427		5.121	21.944	3.694
3/28/2006 0:00	28.262	38.454	35.266	44.483		5.114	21.897	3.709
3/28/2006 4:00	28.275	38.46	35.251	44.464		5.097	21.895	3.722
3/28/2006 8:00	28.295	38.49	35.26	44.48		5.097	21.882	3.738
3/28/2006 12:00	28.322	38.517	35.253	44.526		5.103	21.975	3.749
3/28/2006 16:00	28.31	38.469	35.213	44.494		5.143	22.236	3.755
3/28/2006 20:00	28.305	38.441	35.197	44.487		5.114	22.168	3.768
3/29/2006 0:00	28.317	38.441	35.193	44.487		5.1	22	3.777
3/29/2006 4:00	28.31	38.409	35.169	44.478		5.11	21.983	3.788
3/29/2006 8:00	28.31	38.4	35.161	44.501		5.122	21.969	3.799
3/29/2006 12:00	28.297	38.375	35.131	44.487		5.095	22.257	3.803
3/29/2006 16:00	28.27	38.287	35.077	44.462		5.093	22.348	3.807
3/29/2006 20:00	28.26	38.246	35.059	44.439		5.103	22.25	3.815
3/30/2006 0:00	28.28	38.259	35.063	44.402		5.102	22.095	3.825
3/30/2006 4:00	28.255	38.212	35.026	44.386		5.118	22.126	3.824
3/30/2006 8:00	28.255	38.198	35.019	44.404		5.116	22.159	3.837
3/30/2006 12:00	28.247	38.172	34.992	44.388		5.122	22.327	3.84
3/30/2006 16:00	28.191	38.063	34.93	44.328		5.04	22.306	3.828
3/30/2006 20:00	28.121	37.986	34.93	44.337		4.376	22.013	3.787
3/31/2006 0:00	28.089	38.037	34.986	44.337		4.539	21.681	3.753
3/31/2006 4:00	28.044	38.04	34.97	44.388		4.762	21.595	3.719
3/31/2006 8:00	28.022	38.057	34.966	44.413		4.907	21.567	3.7
3/31/2006 12:00	28.02	38.061	34.944	44.431		4.977	21.696	3.688
3/31/2006 16:00	27.997	38.029	34.918	44.448		5.01	21.927	3.679
3/31/2006 20:00	27.965	38.033	34.92	44.469		5.04	21.795	3.678
4/1/2006 0:00	28.003	38.042	34.914	44.487		5.063	21.65	3.676
4/1/2006 4:00	27.985	38.01	34.88	44.466		5.059	21.629	3.671
4/1/2006 8:00	27.988	37.995	34.87	44.501		5.067	21.658	3.674
4/1/2006 12:00	27.973	37.958	34.835	44.506		5.057	21.996	3.668
4/1/2006 16:00	27.923	37.839	34.757	44.485		5.065	22.12	3.657
4/1/2006 20:00	27.883	37.786	34.719	44.42		5.049	22.039	3.658
4/2/2006 0:00	27.854	37.717	34.685	44.425		5.053	21.946	3.654
4/2/2006 4:00	27.702	37.527	34.616	44.395		3.347	21.722	3.393
4/2/2006 8:00	27.388	37.311	34.524	44.362		3.678	21.317	3.226
4/2/2006 12:00	27.2	37.169	34.472	44.339		4.093	21.304	3.11
4/2/2006 16:00	27.096	37.13	34.425	44.344		4.377	21.07	3.018
4/2/2006 20:00	26.996	37.075	34.344	44.358		4.383	20.908	2.941
4/3/2006 0:00	26.756	37.03	34.288	44.358		3.186	20.39	2.58
4/3/2006 4:00	26.555	36.932	34.158	44.411		3.693	20.015	2.328
4/3/2006 8:00	26.392	36.844	34.063	44.434		4.122	19.975	2.191
4/3/2006 12:00	26.295	36.739	33.958	44.448		4.373	20.062	2.115
4/3/2006 16:00	26.173	36.588	33.823	44.411		4.561	20.283	2.052
4/3/2006 20:00	26.077	36.45	33.701	44.416		4.684	20.152	2.017
4/4/2006 0:00	26.017	36.353	33.578	44.408		4.775	19.959	2
4/4/2006 4:00	25.945	36.229	33.423	44.383		4.837	19.845	1.985
4/4/2006 8:00	25.9	36.153	33.322	44.365		4.86	19.794	1.985
4/4/2006 12:00	25.851	36.054	33.198	44.342		4.883	20.126	1.976
4/4/2006 16:00	25.781	35.905	33.051	44.272		4.903	20.318	1.963
4/4/2006 20:00	25.674	35.798	32.978	44.261		4.917	20.174	1.966
4/5/2006 0:00	25.717	35.73	32.886	44.203		4.914	19.994	1.972
4/5/2006 4:00	25.687	35.658	32.789	44.196		4.934	19.936	1.979

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/5/2006 8:00	25.672	35.598	32.729	44.166		4.945	19.936	1.988
4/5/2006 12:00	25.625	35.506	32.643	44.099		4.934	20.193	1.983
4/5/2006 16:00	25.572	35.383	32.537	44.053		4.93	20.248	1.987
4/5/2006 20:00	25.553	35.319	32.454	44.037		4.916	20.056	1.995
4/6/2006 0:00	25.548	35.288	32.365	44.004		4.926	19.933	2.008
4/6/2006 4:00	25.518	35.227	32.242	43.962		4.942	19.964	2.011
4/6/2006 8:00	25.51	35.199	32.133	43.928		4.939	19.985	2.026
4/6/2006 12:00	25.51	35.182	32.037	43.9		4.939	20.126	2.038
4/6/2006 16:00	25.468	35.109	31.892	43.854		4.935	20.062	2.038
4/6/2006 20:00	25.485	35.092	31.828	43.817		4.939	19.874	2.062
4/7/2006 0:00	25.476	35.06	31.763	43.769		4.931	19.638	2.068
4/7/2006 4:00	25.493	35.069	31.759	43.743		4.926	19.557	2.092
4/7/2006 8:00	25.518	35.066	31.755	43.746		4.937	19.57	2.112
4/7/2006 12:00	25.595	35.158	31.856	43.771		4.955	19.711	2.155
4/7/2006 16:00	25.666	35.214	31.914	43.792		4.955	19.94	2.188
4/7/2006 20:00	25.821	35.368	32.129	43.847		4.982	19.823	2.253
4/8/2006 0:00	25.887	35.419	32.199	43.884		4.984	19.972	2.282
4/8/2006 4:00	25.947	35.445	32.226	43.905		5.007	19.907	2.309
4/8/2006 8:00	26.004	35.488	32.278	43.926		4.978	19.914	2.341
4/8/2006 12:00	26.034	35.471	32.25	43.93		4.999	20.22	2.355
4/8/2006 16:00	26.016	35.426	32.198	43.914		5.003	20.458	2.368
4/8/2006 20:00	26.011	35.385	32.15	43.889		4.999	20.313	2.385
4/9/2006 0:00	26.036	35.385	32.152	43.873		5.024	20.049	2.41
4/9/2006 4:00	26.036	35.359	32.12	43.819		5.036	19.97	2.425
4/9/2006 8:00	26.046	35.351	32.104	43.801		5.044	19.918	2.448
4/9/2006 12:00	26.056	35.334	32.07	43.813		5.007	20.231	2.46
4/9/2006 16:00	26.011	35.27	31.976	43.776		5.024	20.388	2.469
4/9/2006 20:00	26.009	35.246	31.932	43.743		5.014	20.216	2.489
4/10/2006 0:00	26.023	35.257	31.93	43.718		5.016	20.018	2.509
4/10/2006 4:00	26.018	35.236	31.895	43.662		5.01	19.974	2.519
4/10/2006 8:00	26.026	35.238	31.887	43.669		5.004	19.982	2.54
4/10/2006 12:00	26.055	35.248	31.863	43.621		5.003	20.28	2.555
4/10/2006 16:00	26.033	35.212	31.799	43.62		5.026	20.423	2.567
4/10/2006 20:00	26.051	35.206	31.779	43.591		5.022	20.189	2.588
4/11/2006 0:00	26.07	35.212	31.773	43.545		5.026	20.02	2.603
4/11/2006 4:00	26.055	35.178	31.711	43.517		5.018	19.976	2.612
4/11/2006 8:00	26.063	35.167	31.679	43.489		5.043	19.962	2.628
4/11/2006 12:00	26.075	35.182	31.654	43.496		5.033	20.133	2.643
4/11/2006 16:00	26.07	35.157	31.606	43.441		5.032	20.38	2.656
4/11/2006 20:00	26.11	35.195	31.664	43.457		5.022	20.212	2.692
4/12/2006 0:00	26.224	35.33	31.819	43.484		5.033	19.957	2.724
4/12/2006 4:00	26.276	35.381	31.88	43.517		5.033	19.976	2.733
4/12/2006 8:00	26.34	35.434	31.938	43.535		5.043	20.067	2.759
4/12/2006 12:00	26.408	35.528	31.99	43.556		5.062	20.359	2.784
4/12/2006 16:00	26.405	35.486	31.944	43.549		5.058	20.557	2.804
4/12/2006 20:00	26.4	35.467	31.9	43.533		5.05	20.408	2.824
4/13/2006 0:00	26.422	35.478	31.892	43.491		5.07	20.125	2.844
4/13/2006 4:00	26.415	35.448	31.837	43.498		5.054	20.057	2.856
4/13/2006 8:00	26.407	35.424	31.785	43.473		5.052	20.04	2.869
4/13/2006 12:00	26.39	35.403	31.681	43.445		5.066	20.421	2.875
4/13/2006 16:00	26.34	35.328	31.544	43.367		5.05	20.512	2.887

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/13/2006 20:00	26.343	35.317	31.52	43.367		5.05	20.34	2.913
4/14/2006 0:00	26.362	35.328	31.504	43.313		5.037	20.057	2.926
4/14/2006 4:00	26.335	35.283	31.397	43.309		5.033	20.036	2.928
4/14/2006 8:00	26.345	35.304	31.381	43.279		5.052	20.028	2.948
4/14/2006 12:00	26.37	35.349	31.383	43.27		5.047	20.357	2.964
4/14/2006 16:00	26.377	35.334	31.341	43.219		5.043	20.559	2.981
4/14/2006 20:00	26.395	35.343	31.349	43.237		5.06	20.288	3.007
4/15/2006 0:00	26.427	35.364	31.359	43.228		5.06	20.018	3.019
4/15/2006 4:00	26.414	35.347	31.311	43.212		5.06	19.935	3.027
4/15/2006 8:00	26.422	35.334	31.266	43.186		5.077	19.982	3.036
4/15/2006 12:00	26.412	35.309	31.182	43.159		5.097	20.222	3.045
4/15/2006 16:00	26.345	35.255	31.005	43.112		5.085	20.423	3.039
4/15/2006 20:00	26.335	35.223	30.971	43.043		5.055	20.255	3.066
4/16/2006 0:00	26.355	35.236	30.969	43.045		5.077	20.115	3.076
4/16/2006 4:00	26.384	35.264	30.993	42.999		5.05	20.044	3.088
4/16/2006 8:00	26.434	35.334	31.083	42.997		5.067	20.02	3.108
4/16/2006 12:00	26.506	35.4	31.198	43.009		5.079	20.063	3.128
4/16/2006 16:00	26.548	35.434	31.262	43.025		5.057	20.173	3.147
4/16/2006 20:00	26.595	35.501	31.341	43.045		5.102	20.097	3.167
4/17/2006 0:00	26.63	35.542	31.379	43.089		5.067	20.046	3.179
4/17/2006 4:00	26.64	35.55	31.383	43.055		5.065	20.061	3.191
4/17/2006 8:00	26.67	35.582	31.415	43.087		5.053	20.086	3.208
4/17/2006 12:00	26.697	35.627	31.421	43.087		5.083	20.21	3.217
4/17/2006 16:00	26.685	35.603	31.363	43.071		5.065	20.471	3.225
4/17/2006 20:00	26.679	35.603	31.33	43.045		5.069	20.427	3.244
4/18/2006 0:00	26.672	35.591	31.294	42.997		5.076	20.286	3.249
4/18/2006 4:00	26.657	35.533	31.208	43.002		5.059	20.243	3.253
4/18/2006 8:00	26.602	35.495	31.15	42.974		5.037	20.257	3.262
4/18/2006 12:00	26.657	35.518	31.15	42.932		5.043	20.491	3.274
4/18/2006 16:00	26.699	35.571	31.214	42.935		5.063	20.739	3.299
4/18/2006 20:00	26.754	35.704	31.32	42.976		5.096	20.467	3.323
4/19/2006 0:00	26.826	35.832	31.447	43.009		5.098	20.19	3.338
4/19/2006 4:00	26.848	35.866	31.465	43.02		5.111	20.279	3.35
4/19/2006 8:00	26.863	35.883	31.477	43.022		5.1	20.21	3.361
4/19/2006 12:00	26.856	35.895	31.459	43.022		5.115	20.547	3.377
4/19/2006 16:00	26.865	35.872	31.377	42.972		5.125	20.732	3.393
4/19/2006 20:00	26.858	35.846	31.357	42.979		5.111	20.574	3.415
4/20/2006 0:00	26.885	35.887	31.401	42.953		5.101	20.324	3.43
4/20/2006 4:00	26.903	35.91	31.409	42.946		5.097	20.31	3.439
4/20/2006 8:00	26.908	35.966	31.457	42.981		5.124	20.266	3.454
4/20/2006 12:00	26.95	35.968	31.439	42.983		5.117	20.608	3.463
4/20/2006 16:00	26.942	35.947	31.387	42.972		5.111	20.843	3.479
4/20/2006 20:00	26.955	35.97	31.399	42.958		5.113	20.645	3.503
4/21/2006 0:00	26.96	35.981	31.395	42.923		5.111	20.423	3.508
4/21/2006 4:00	26.97	35.983	31.377	42.914		5.105	20.322	3.519
4/21/2006 8:00	26.985	36.03	31.397	42.942		5.115	20.326	3.528
4/21/2006 12:00	27.004	36.042	31.393	42.942		5.108	20.684	3.539
4/21/2006 16:00	26.992	36	31.32	42.923		5.114	20.936	3.554
4/21/2006 20:00	26.992	36.002	31.294	42.877		5.12	20.705	3.574
4/22/2006 0:00	27.002	36.044	31.324	42.872		5.11	20.403	3.586
4/22/2006 4:00	27.017	36.057	31.318	42.865		5.107	20.378	3.592

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/22/2006 8:00	27.036	36.094	31.345	42.898		5.112	20.361	3.601
4/22/2006 12:00	27.057	36.106	31.332	42.893		5.099	20.736	3.612
4/22/2006 16:00	27.052	36.14	31.286	42.879		5.11	20.885	3.629
4/22/2006 20:00	27.066	36.172	31.274	42.868		5.1	20.759	3.648
4/23/2006 0:00	27.071	36.164	31.288	42.865		5.122	20.494	3.66
4/23/2006 4:00	27.083	36.168	31.288	42.836		5.104	20.428	3.666
4/23/2006 8:00	27.104	36.192	31.31	42.856		5.098	20.494	3.675
4/23/2006 12:00	27.099	36.179	31.27	42.845		5.114	20.825	3.684
4/23/2006 16:00	27.076	36.132	31.208	42.826		5.118	21.001	3.701
4/23/2006 20:00	27.091	36.187	31.208	42.814		5.118	20.804	3.721
4/24/2006 0:00	27.061	36.168	31.212	42.808		5.102	20.514	3.73
4/24/2006 4:00	27.098	36.162	31.198	42.805		5.083	20.456	3.728
4/24/2006 8:00	27.148	36.251	31.326	42.814		5.1	20.531	3.752
4/24/2006 12:00	27.118	36.179	31.226	42.803		5.098	20.661	3.743
4/24/2006 16:00	27.103	36.147	31.156	42.784		5.098	20.879	3.753
4/24/2006 20:00	27.106	36.147	31.16	42.766		5.073	20.783	3.777
4/25/2006 0:00	27.126	36.19	31.212	42.736		5.086	20.583	3.792
4/25/2006 4:00	27.165	36.258	31.282	42.75		5.071	20.541	3.794
4/25/2006 8:00	27.203	36.326	31.35	42.796		5.065	20.423	3.8
4/25/2006 12:00	27.232	36.377	31.413	42.821		5.069	20.547	3.805
4/25/2006 16:00	27.25	36.392	31.427	42.829		5.1	20.535	3.809
4/25/2006 20:00	27.232	36.394	31.425	42.796		5.102	20.516	3.812
4/26/2006 0:00	27.275	36.424	31.457	42.833		5.07	20.504	3.815
4/26/2006 4:00	27.272	36.418	31.441	42.833		5.076	20.523	3.816
4/26/2006 8:00	27.287	36.439	31.465	42.801		5.09	20.535	3.824
4/26/2006 12:00	27.292	36.446	31.449	42.829		5.088	20.788	3.827
4/26/2006 16:00	27.267	36.405	31.371	42.806		5.078	21.098	3.834
4/26/2006 20:00	27.252	36.365	31.324	42.748		5.08	20.943	3.845
4/27/2006 0:00	27.275	36.407	31.361	42.775		5.072	20.701	3.854
4/27/2006 4:00	27.26	36.405	31.35	42.771		5.082	20.641	3.856
4/27/2006 8:00	27.284	36.42	31.36	42.762		5.076	20.637	3.859
4/27/2006 12:00	27.292	36.429	31.35	42.759		5.078	21.009	3.864
4/27/2006 16:00	27.255	36.345	31.238	42.702		5.061	21.077	3.871
4/27/2006 20:00	27.25	36.341	31.226	42.715		5.093	20.928	3.887
4/28/2006 0:00	27.267	36.38	31.252	42.706		5.072	20.696	3.893
4/28/2006 4:00	27.284	36.399	31.262	42.702		5.057	20.645	3.897
4/28/2006 8:00	27.287	36.424	31.278	42.699		5.041	20.605	3.898
4/28/2006 12:00	27.26	36.384	31.224	42.687		5.044	20.612	3.891
4/28/2006 16:00	27.235	36.36	31.224	42.674		5.035	20.639	3.897
4/28/2006 20:00	27.217	36.335	31.21	42.637		5.039	20.634	3.898
4/29/2006 0:00	27.18	36.301	31.204	42.662		5.019	20.521	3.887
4/29/2006 4:00	27.054	36.102	31.087	42.635		5.025	20.415	3.862
4/29/2006 8:00	26.915	35.938	30.985	42.611		5.023	20.312	3.848
4/29/2006 12:00	26.801	35.831	30.932	42.563		5.027	20.421	3.837
4/29/2006 16:00	26.717	35.748	30.9	42.577		5.03	20.473	3.819
4/29/2006 20:00	26.62	35.652	30.868	42.556		5.021	20.454	3.799
4/30/2006 0:00	26.535	35.556	30.84	42.535		4.994	20.341	3.772
4/30/2006 4:00	26.26	35.362	30.765	42.505		4.933	19.633	3.654
4/30/2006 8:00	25.903	35.276	30.763	42.496		4.976	19.357	3.497
4/30/2006 12:00	25.665	35.223	30.765	42.498		4.962	19.356	3.337
4/30/2006 16:00	25.521	35.178	30.769	42.47		4.968	19.37	3.188

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
4/30/2006 20:00	25.424	35.131	30.771	42.505		4.966	19.355	3.055
5/1/2006 0:00	25.387	35.125	30.812	42.524		4.986	19.217	2.937
5/1/2006 4:00	25.338	35.088	30.787	42.501		4.976	19.176	2.832
5/1/2006 8:00	25.325	35.076	30.79	42.542		4.986	19.111	2.748
5/1/2006 12:00	25.315	35.056	30.769	42.542		5.005	19.339	2.684
5/1/2006 16:00	25.29	35.016	30.689	42.531		4.984	19.49	2.633
5/1/2006 20:00	25.275	34.996	30.634	42.521		4.995	19.426	2.592
5/2/2006 0:00	25.238	34.977	30.582	42.517		4.981	19.262	2.553
5/2/2006 4:00	25.233	34.93	30.465	42.491		4.991	19.182	2.513
5/2/2006 8:00	25.246	34.922	30.403	42.48		4.995	19.114	2.489
5/2/2006 12:00	25.241	34.902	30.303	42.443		4.983	19.415	2.473
5/2/2006 16:00	25.211	34.851	30.13	42.433		4.977	19.571	2.466
5/2/2006 20:00	25.196	34.817	30.005	42.397		4.985	19.494	2.463
5/3/2006 0:00	25.201	34.815	29.919	42.378		4.991	19.275	2.453
5/3/2006 4:00	25.141	34.843	29.89	42.343		4.964	19.157	2.455
5/3/2006 8:00	25.261	34.866	29.866	42.346		4.967	19.113	2.461
5/3/2006 12:00	25.246	34.905	29.844	42.36		4.987	19.086	2.461
5/3/2006 16:00	25.288	34.879	29.744	42.35		4.956	19.079	2.427
5/3/2006 20:00	25.213	34.824	29.625	42.357		4.952	18.896	2.415
5/4/2006 0:00	25.181	34.8	29.564	42.353		4.941	18.871	2.42
5/4/2006 4:00	25.141	34.747	29.437	42.309		4.951	18.873	2.406
5/4/2006 8:00	25.137	34.749	29.403	42.343		4.951	18.822	2.414
5/4/2006 12:00	25.141	34.73	29.315	42.313		4.967	18.875	2.416
5/4/2006 16:00	25.092	34.661	29.119	42.311		4.971	18.998	2.404
5/4/2006 20:00	25.05	34.606	28.965	42.249		4.988	19.041	2.402
5/5/2006 0:00	25.06	34.606	28.9	42.237		4.962	18.923	2.401
5/5/2006 4:00	25.037	34.58	28.781	42.219		4.953	18.859	2.393
5/5/2006 8:00	25.057	34.578	28.699	42.205		4.956	18.818	2.391
5/5/2006 12:00	25.062	34.563	28.59	42.193		4.959	18.911	2.389
5/5/2006 16:00	25.022	34.501	28.389	42.186		4.983	19.118	2.386
5/5/2006 20:00	25.007	34.467	28.246	42.149		4.969	19.047	2.387
5/6/2006 0:00	24.968	34.461	28.172	42.126		4.957	18.876	2.39
5/6/2006 4:00	25.003	34.446	28.063	42.101		4.975	18.828	2.381
5/6/2006 8:00	25.012	34.448	27.985	42.062		4.969	18.764	2.382
5/6/2006 12:00	25.012	34.431	27.882	42.059		4.951	18.931	2.382
5/6/2006 16:00	24.998	34.393	27.741	42.022		4.965	19.116	2.393
5/6/2006 20:00	24.99	34.374	27.639	41.965		4.965	19.031	2.404
5/7/2006 0:00	25.305	34.384	27.591	41.978		4.965	18.839	2.41
5/7/2006 4:00	24.985	34.367	27.494	41.921		4.947	18.752	2.406
5/7/2006 8:00	25.017	34.384	27.426	41.93		4.955	18.762	2.408
5/7/2006 12:00	25.017	34.363	27.317	41.9		4.965	18.93	2.408
5/7/2006 16:00	25	34.333	27.196	41.856		4.959	18.994	2.414
5/7/2006 20:00	24.995	34.309	27.09	41.828		4.961	18.986	2.422
5/8/2006 0:00	24.997	34.299	27.008	41.768		4.947	18.903	2.42
5/8/2006 4:00	24.96	34.258	26.879	41.757		4.947	18.899	2.414
5/8/2006 8:00	24.995	34.269	26.837	41.727		4.937	18.878	2.422
5/8/2006 12:00	24.992	34.247	26.726	41.697		4.949	19	2.431
5/8/2006 16:00	24.974	34.222	26.616	41.63		4.964	18.932	2.456
5/8/2006 20:00	24.955	34.205	26.531	41.618		4.947	18.839	2.471
5/9/2006 0:00	25.015	34.241	26.557	41.574		4.937	18.652	2.488
5/9/2006 4:00	24.975	34.209	26.487	41.579		4.943	18.255	2.465

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
5/9/2006 8:00	24.933	34.16	26.406	41.556		4.941	18.28	2.457
5/9/2006 12:00	24.928	34.158	26.408	41.523		4.941	18.557	2.479
5/9/2006 16:00	24.91	34.132	26.346	41.491		4.947	18.777	2.505
5/9/2006 20:00	24.918	34.119	26.32	41.496		4.947	18.684	2.532
5/10/2006 0:00	24.923	34.115	26.302	41.514		4.949	18.435	2.54
5/10/2006 4:00	24.93	34.13	26.308	41.482		4.958	18.355	2.549
5/10/2006 8:00	24.945	34.139	26.302	41.479		4.952	18.4	2.561
5/10/2006 12:00	25.005	34.175	26.33	41.491		4.94	18.423	2.576
5/10/2006 16:00	24.982	34.111	26.183	41.454		4.962	18.623	2.583
5/10/2006 20:00	24.98	34.096	26.133	41.456		4.96	18.623	2.61
5/11/2006 0:00	25.012	34.113	26.133	41.447		4.964	18.406	2.62
5/11/2006 4:00	25.091	34.1	26.069	41.399		4.971	18.321	2.623
5/11/2006 8:00	25.022	34.115	26.043	41.41		4.944	18.354	2.631
5/11/2006 12:00	25.059	34.141	26.041	41.406		4.971	18.52	2.649
5/11/2006 16:00	25.052	34.107	25.952	41.38		4.964	18.75	2.663
5/11/2006 20:00	25.042	34.075	25.868	41.318		4.96	18.698	2.685
5/12/2006 0:00	25.054	34.072	25.828	41.315		4.965	18.501	2.69
5/12/2006 4:00	25.041	34.04	25.749	41.281		4.968	18.404	2.691
5/12/2006 8:00	25.062	34.051	25.737	41.262		4.975	18.367	2.7
5/12/2006 12:00	25.071	34.043	25.695	41.209		4.977	18.679	2.717
5/12/2006 16:00	25.034	33.987	25.572	41.188		4.985	18.894	2.733
5/12/2006 20:00	25.032	33.968	25.516	41.121		4.975	18.781	2.756
5/13/2006 0:00	25.041	33.972	25.508	41.121		4.979	18.522	2.764
5/13/2006 4:00	25.061	33.975	25.486	41.098		4.969	18.412	2.767
5/13/2006 8:00	25.106	34.024	25.546	41.066		4.963	18.367	2.781
5/13/2006 12:00	25.143	34.051	25.564	41.068		4.979	18.599	2.8
5/13/2006 16:00	25.151	34.069	25.534	41.05		4.976	18.849	2.821
5/13/2006 20:00	25.178	34.088	25.54	41.043		4.988	18.779	2.845
5/14/2006 0:00	25.22	34.13	25.609	41.089		4.992	18.539	2.857
5/14/2006 4:00	25.242	34.134	25.613	41.082		4.971	18.427	2.863
5/14/2006 8:00	25.277	34.164	25.657	41.089		4.99	18.481	2.87
5/14/2006 12:00	25.307	34.184	25.673	41.087		4.994	18.646	2.887
5/14/2006 16:00	25.312	34.167	25.635	41.068		4.996	18.752	2.9
5/14/2006 20:00	25.302	34.173	25.643	41.061		4.984	18.752	2.923
5/15/2006 0:00	25.344	34.199	25.675	41.057		4.998	18.601	2.932
5/15/2006 4:00	25.357	34.198	25.673	41.02		4.984	18.52	2.934
5/15/2006 8:00	25.393	34.22	25.703	41.041		4.992	18.535	2.942
5/15/2006 12:00	25.406	34.228	25.701	41.036		5	18.791	2.955
5/15/2006 16:00	25.411	34.194	25.659	41.011		5.019	18.952	2.976
5/15/2006 20:00	24.626	34.171	25.631	40.951		5.009	18.897	2.988
5/16/2006 0:00	25.396	34.177	25.643	40.96		5.006	18.743	2.992
5/16/2006 4:00	25.411	34.158	25.623	40.902		4.988	18.669	2.993
5/16/2006 8:00	25.418	34.188	25.639	40.907		5.009	18.628	2.997
5/16/2006 12:00	25.423	34.177	25.619	40.863		5.003	18.944	3.011
5/16/2006 16:00	25.401	34.13	25.556	40.847		4.999	19.037	3.032
5/16/2006 20:00	25.388	34.1	25.52	40.803		5.007	18.973	3.051
5/17/2006 0:00	25.401	34.109	25.55	40.775		4.999	18.738	3.055
5/17/2006 4:00	25.401	34.098	25.546	40.71		4.991	18.64	3.057
5/17/2006 8:00	25.408	34.109	25.576	40.724		5.003	18.603	3.062
5/17/2006 12:00	25.416	34.092	25.552	40.685		5.007	18.961	3.085
5/17/2006 16:00	25.384	34.032	25.454	40.629		5.005	18.978	3.108

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
5/17/2006 20:00	25.364	34.002	25.427	40.579		4.981	18.895	3.136
5/18/2006 0:00	25.418	34.075	25.558	40.544		4.981	18.62	3.152
5/18/2006 4:00	25.448	34.105	25.604	40.572		4.983	18.483	3.152
5/18/2006 8:00	25.473	34.132	25.665	40.569		4.974	18.45	3.159
5/18/2006 12:00	25.483	34.124	25.657	40.528		4.977	18.872	3.181
5/18/2006 16:00	25.46	34.092	25.609	40.495		5.005	19.073	3.208
5/18/2006 20:00	25.446	34.062	25.576	40.486		4.995	18.998	3.229
5/19/2006 0:00	25.446	34.047	25.564	40.419		4.987	18.758	3.229
5/19/2006 4:00	25.436	34.017	25.54	40.408		4.97	18.692	3.229
5/19/2006 8:00	25.448	34.043	25.612	40.355		4.985	18.645	3.246
5/19/2006 12:00	25.441	34.028	25.59	40.352		4.989	18.99	3.262
5/19/2006 16:00	25.458	34.032	25.598	40.304		5.009	19.12	3.302
5/19/2006 20:00	25.458	34.086	25.679	40.318		4.987	18.936	3.34
5/20/2006 0:00	25.55	34.154	25.795	40.336		4.979	18.603	3.347
5/20/2006 4:00	25.562	34.165	25.829	40.338		5.01	18.597	3.349
5/20/2006 8:00	25.602	34.207	25.908	40.352		5.006	18.58	3.351
5/20/2006 12:00	25.641	34.254	26.002	40.338		5.02	18.738	3.379
5/20/2006 16:00	25.646	34.245	25.992	40.336		5.006	19.176	3.4
5/20/2006 20:00	25.641	34.229	25.98	40.304		5.016	19.056	3.425
5/21/2006 0:00	25.669	34.263	26.051	40.299		5.006	18.758	3.427
5/21/2006 4:00	25.666	34.248	26.041	40.283		5.027	18.628	3.421
5/21/2006 8:00	25.693	34.275	26.101	40.311		5.037	18.58	3.419
5/21/2006 12:00	25.703	34.282	26.127	40.278		5.049	18.957	3.44
5/21/2006 16:00	25.698	34.269	26.109	40.294		5.039	19.286	3.474
5/21/2006 20:00	66.246	34.29	26.165	40.281		5.055	19.16	3.504
5/22/2006 0:00	30.792	34.352	26.282	40.29		5.049	18.839	3.51
5/22/2006 4:00	25.85	34.35	26.286	40.29		5.037	18.734	3.502
5/22/2006 8:00	66.236	34.401	26.381	40.292		5.01	18.682	3.51
5/22/2006 12:00	25.785	34.393	26.38	40.26		5.012	18.911	3.525
5/22/2006 16:00	66.228	34.365	26.342	40.267		5.025	19.327	3.553
5/22/2006 20:00	32.257	34.354	26.344	40.246		5.025	19.228	3.578
5/23/2006 0:00	30.897	34.391	26.406	40.209		5.027	18.98	3.58
5/23/2006 4:00	24.788	34.38	26.399	40.197		5.027	18.891	3.574
5/23/2006 8:00	25.078	34.421	26.469	40.191		5.037	18.874	3.571
5/23/2006 12:00	25.827	34.38	26.42	40.2		5.05	19.205	3.585
5/23/2006 16:00	25.783	34.363	26.368	40.165		5.048	19.439	3.621
5/23/2006 20:00	66.524	34.386	26.352	40.137		5.041	19.311	3.643
5/24/2006 0:00	28.349	34.395	26.398	40.096		5.069	19.071	3.644
5/24/2006 4:00	25.812	34.378	26.382	40.1		5.062	18.986	3.638
5/24/2006 8:00	25.106	34.418	26.459	40.059		5.058	18.918	3.642
5/24/2006 12:00	25.866	34.44	26.491	40.052		5.069	19.305	3.672
5/24/2006 16:00	25.864	34.44	26.461	40.066		5.064	19.485	3.704
5/24/2006 20:00	25.063	34.418	26.449	40.011		5.062	19.302	3.734
5/25/2006 0:00	66.586	34.439	26.495	40.033		5.075	18.943	3.736
5/25/2006 4:00	25.872	34.436	26.503	40.01		5.055	18.831	3.732
5/25/2006 8:00	25.904	34.469	26.559	40.001		5.064	18.829	3.734
5/25/2006 12:00	66.604	34.491	26.579	39.962		5.087	19.238	3.764
5/25/2006 16:00	30.99	34.503	26.545	39.974		5.093	19.482	3.794
5/25/2006 20:00	24.538	34.521	26.563	39.955		5.102	19.338	3.822
5/26/2006 0:00	24.598	34.566	26.634	39.923		5.106	18.974	3.822
5/26/2006 4:00	66.472	34.555	26.648	39.943		5.108	18.889	3.811

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
5/26/2006 8:00	25.976	34.593	26.702	39.911		5.098	18.912	3.805
5/26/2006 12:00	26.004	34.642	26.756	39.944		5.106	19.129	3.816
5/26/2006 16:00	25.944	34.559	26.65	39.877		5.1	19.377	3.836
5/26/2006 20:00	66.485	34.546	26.648	39.886		5.071	19.363	3.861
5/27/2006 0:00	25.963	34.559	26.678	39.837		5.092	19.133	3.858
5/27/2006 4:00	25.949	34.546	26.658	39.817		5.063	19.03	3.845
5/27/2006 8:00	25.974	34.576	26.724	39.805		5.09	18.995	3.841
5/27/2006 12:00	30.885	34.598	26.753	39.798		5.077	19.264	3.846
5/27/2006 16:00	31.067	34.578	26.728	39.807		5.088	19.528	3.88
5/27/2006 20:00	25.996	34.645	26.75	39.754		5.078	19.442	3.906
5/28/2006 0:00	31.146	34.702	26.865	39.794		5.077	19.142	3.908
5/28/2006 4:00	24.706	34.711	26.905	39.766		5.082	19.044	3.901
5/28/2006 8:00	25.456	34.745	26.951	39.773		5.068	19.053	3.899
5/28/2006 12:00	26.112	34.768	26.986	39.8		5.088	19.39	3.927
5/28/2006 16:00	29.869	34.758	26.99	39.793		5.098	19.595	3.955
5/28/2006 20:00	69.338	34.77	27.036	39.786		5.086	19.483	3.98
5/29/2006 0:00	24.793	34.796	27.102	39.796		5.084	19.204	3.978
5/29/2006 4:00	66.847	34.789	27.114	39.766		5.096	19.133	3.971
5/29/2006 8:00	26.185	34.835	27.205	39.805		5.09	19.111	3.977
5/29/2006 12:00	25.476	34.948	27.273	39.828		5.084	19.139	3.981
5/29/2006 16:00	31.312	34.917	27.271	39.842		5.082	19.286	3.992
5/29/2006 20:00	66.912	34.894	27.269	39.821		5.072	19.431	4.017
5/30/2006 0:00	26.334	34.934	27.354	39.805		5.08	19.222	4.017
5/30/2006 4:00	68.228	34.954	27.392	39.821		5.051	19.092	3.998
5/30/2006 8:00	68.226	34.947	27.428	39.812		5.078	19.063	4
5/30/2006 12:00	26.19	34.975	27.475	39.83		5.078	19.377	4.006
5/30/2006 16:00	26.361	34.971	27.471	39.856		5.08	19.692	4.033
5/30/2006 20:00	26.261	34.937	27.438	39.826		5.074	19.499	4.041
5/31/2006 0:00	26.44	34.971	27.499	39.826		5.076	19.346	4.033
5/31/2006 4:00	31.176	34.975	27.508	39.794		5.078	19.257	4.022
5/31/2006 8:00	26.452	34.999	27.553	39.796		5.091	19.228	4.016
5/31/2006 12:00	26.316	35.018	27.583	39.83		5.091	19.504	4.031
5/31/2006 16:00	26.279	35.005	27.573	39.791		5.095	19.35	4.035
5/31/2006 20:00	26.214	34.954	27.545	39.796		5.076	19.284	4.037
6/1/2006 0:00	26.204	34.984	27.613	39.772		5.085	19.167	4.028
6/1/2006 4:00	26.174	34.939	27.581	39.789		5.109	19.146	4.01
6/1/2006 8:00	26.174	34.948	27.635	39.789		5.073	19.109	4.001
6/1/2006 12:00	26.162	34.941	27.641	39.784		5.093	19.344	4.01
6/1/2006 16:00	26.147	34.926	27.621	39.745		5.079	19.363	4.025
6/1/2006 20:00	26.14	34.913	27.625	39.757		5.091	19.297	4.023
6/2/2006 0:00	26.142	34.931	27.662	39.763		5.07	19.175	4.014
6/2/2006 4:00	26.142	34.933	27.674	39.747		5.076	19.105	4.001
6/2/2006 8:00	26.147	34.941	27.71	39.749		5.075	19.08	3.995
6/2/2006 12:00	26.155	34.96	27.724	39.745		5.083	19.425	4.019
6/2/2006 16:00	26.147	34.965	27.676	39.701		5.108	19.779	4.055
6/2/2006 20:00	26.132	34.958	27.651	39.71		5.101	19.694	4.072
6/3/2006 0:00	26.137	34.984	27.672	39.701		5.099	19.382	4.061
6/3/2006 4:00	26.13	34.952	27.667	39.65		5.083	19.272	4.049
6/3/2006 8:00	26.145	34.965	27.704	39.646		5.11	19.221	4.049
6/3/2006 12:00	26.14	34.965	27.689	39.657		5.099	19.487	4.074
6/3/2006 16:00	26.117	34.945	27.621	39.595		5.116	19.874	4.106

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
6/3/2006 20:00	26.12	34.948	27.627	39.569		5.097	19.727	4.119
6/4/2006 0:00	26.107	34.935	27.627	39.579		5.112	19.436	4.108
6/4/2006 4:00	26.122	34.935	27.635	39.558		5.097	19.326	4.091
6/4/2006 8:00	26.107	34.935	27.679	39.558		5.081	19.127	4.079
6/4/2006 12:00	26.075	34.909	27.68	39.514		5.087	19.343	4.089
6/4/2006 16:00	26.05	34.881	27.661	39.526		5.09	19.651	4.119
6/4/2006 20:00	26.038	34.877	27.673	39.514		5.099	19.591	4.134
6/5/2006 0:00	26.053	34.896	27.732	39.514		5.075	19.355	4.121
6/5/2006 4:00	26.053	34.888	27.738	39.509		5.081	19.285	4.106
6/5/2006 8:00	26.045	34.886	27.752	39.475		5.108	19.247	4.096
6/5/2006 12:00	26.058	34.905	27.794	39.502		5.088	19.417	4.119
6/5/2006 16:00	26.035	34.867	27.744	39.459		5.065	19.496	4.128
6/5/2006 20:00	26.018	34.849	27.726	39.472		5.059	19.436	4.117
6/6/2006 0:00	26.021	34.852	27.76	39.461		5.069	19.337	4.106
6/6/2006 4:00	26.005	34.83	27.742	39.44		5.055	19.308	4.089
6/6/2006 8:00	26.03	34.856	27.804	39.44		5.076	19.266	4.081
6/6/2006 12:00	26.015	34.867	27.837	39.449		5.067	19.492	4.1
6/6/2006 16:00	26.043	34.869	27.824	39.445		5.069	19.872	4.136
6/6/2006 20:00	26.035	34.867	27.839	39.433		5.127	19.742	4.159
6/7/2006 0:00	26.082	34.905	27.913	39.459		5.106	19.386	4.151
6/7/2006 4:00	26.097	34.924	27.949	39.472		5.113	19.337	4.14
6/7/2006 8:00	26.134	34.973	28.035	39.479		5.119	19.256	4.14
6/7/2006 12:00	26.152	34.982	28.039	39.491		5.125	19.566	4.168
6/7/2006 16:00	26.144	34.971	28.018	39.493		5.137	19.916	4.198
6/7/2006 20:00	26.152	34.969	28.02	39.489		5.127	19.742	4.219
6/8/2006 0:00	26.169	34.995	28.054	39.491		5.121	19.479	4.212
6/8/2006 4:00	26.164	34.984	28.044	39.489		5.115	19.413	4.2
6/8/2006 8:00	26.209	35.031	28.112	39.466		5.109	19.432	4.199
6/8/2006 12:00	26.206	35.029	28.102	39.47		5.123	19.719	4.231
6/8/2006 16:00	26.184	34.995	28.042	39.486		5.111	19.937	4.257
6/8/2006 20:00	26.189	34.984	28.02	39.433		5.124	19.869	4.274
6/9/2006 0:00	26.201	34.999	28.04	39.422		5.117	19.585	4.264
6/9/2006 4:00	26.201	34.997	28.03	39.426		5.107	19.471	4.251
6/9/2006 8:00	26.201	34.997	28.024	39.408		5.119	19.434	4.249
6/9/2006 12:00	26.206	35.033	27.993	39.385		5.136	19.722	4.279
6/9/2006 16:00	26.179	34.988	27.909	39.338		5.133	20.044	4.302
6/9/2006 20:00	26.169	35.012	27.881	39.288		5.103	19.937	4.321
6/10/2006 0:00	26.169	34.988	27.875	39.26		5.121	19.666	4.311
6/10/2006 4:00	26.164	34.973	27.871	39.23		5.111	19.556	4.302
6/10/2006 8:00	26.186	35.005	27.931	39.195		5.115	19.455	4.3
6/10/2006 12:00	26.199	35.007	27.937	39.223		5.134	19.461	4.293
6/10/2006 16:00	26.191	34.99	27.911	39.207		5.117	19.556	4.296
6/10/2006 20:00	26.191	35.001	27.927	39.195		5.111	19.658	4.313
6/11/2006 0:00	26.241	35.061	28.015	39.202		5.088	19.469	4.3
6/11/2006 4:00	26.258	35.08	28.104	39.262		5.081	19.459	4.291
6/11/2006 8:00	26.273	35.116	28.158	39.288		5.086	19.358	4.283
6/11/2006 12:00	26.291	35.127	28.186	39.313		5.091	19.492	4.27
6/11/2006 16:00	26.293	35.133	28.215	39.334		5.079	19.595	4.276
6/11/2006 20:00	26.29	35.157	28.269	39.334		5.117	19.538	4.278
6/12/2006 0:00	26.335	35.187	28.341	39.369		5.103	19.463	4.27
6/12/2006 4:00	26.345	35.195	28.379	39.401		5.093	19.424	4.259

TABLE S2.2 (Cont.)

	Depth to Water Level in Indicated Well (ft below TOC)							
	MW1S	MW2S	MW3S	MW4S	MW5S	MW6S	MW7S	MW8S
6/12/2006 8:00	26.382	35.236	28.484	39.477		5.083	19.44	4.257
6/12/2006 12:00	26.397	35.24	28.486	39.486		5.091	19.54	3.918
6/12/2006 16:00	26.399	35.242	28.476	39.498		5.107	19.761	39.09
6/12/2006 20:00	26.38	35.219	28.454	39.496		5.093	19.829	39.09
6/13/2006 0:00	26.407	35.249	28.516	39.475		5.122	19.645	4.285
6/13/2006 4:00	26.412	35.245	28.5	39.512		5.142	19.54	4.268
6/13/2006 8:00	26.422	35.255	28.532	39.516		5.134	19.494	4.259
6/13/2006 12:00	26.409	35.249	28.512	39.523		5.139	19.726	4.278
6/13/2006 16:00	26.404	35.219	28.44	39.505		5.136	20.065	4.31
6/13/2006 20:00	26.392	35.206	28.415	39.449		5.122	20.047	4.332
6/14/2006 0:00	26.404	35.219	28.436	39.438		5.129	19.8	4.323
6/14/2006 4:00	26.409	35.219	28.422	39.447		5.143	19.687	4.308
6/14/2006 8:00	26.412	35.228	28.438	39.435		5.122	19.631	4.304
6/14/2006 12:00	26.404	35.217	28.4	39.387		5.118	19.871	4.332
6/14/2006 16:00	26.394	35.187	28.329	39.343		5.135	20.187	4.362
6/14/2006 20:00	26.385	35.183	28.307	39.327		5.134	20.078	4.381
6/15/2006 0:00	26.399	35.21	28.345	39.295		5.114	19.85	4.37
6/15/2006 4:00	26.382	35.185	28.277	39.29		5.122	19.79	4.357
6/15/2006 8:00	26.412	35.217	28.345	39.299		5.12	19.711	4.36
6/15/2006 12:00	26.429	35.236	28.377	39.318		5.147	19.819	4.385
6/15/2006 16:00	26.392	35.21	28.315	39.297		5.143	20.047	4.407
6/15/2006 20:00	26.404	35.202	28.289	39.267		5.133	20.126	4.426
6/16/2006 0:00	26.452	35.253	28.394	39.265		5.114	19.931	4.421
6/16/2006 4:00	26.479	35.268	28.428	39.322		5.131	19.809	4.403
6/16/2006 8:00	26.489	35.277	28.444	39.334		5.149	19.766	4.396
6/16/2006 12:00	26.486	35.262	28.42	39.334		5.179	19.995	4.428
6/16/2006 16:00	26.481	35.238	28.355	39.265		5.172		4.458

Supplement 3:

Quality Control for Sample Collection, Handling, and Analysis

Supplement 3:

Quality Control for Sample Collection, Handling, and Analysis

Groundwater monitoring was conducted at Morrill, Kansas, in 2005–2006, as outlined in the site-specific monitoring *Work Plan* (Argonne 2005a) and the *Master Work Plan* (Argonne 2002). The initial monitoring event of the twice yearly, two-year program occurred in September 2005. In January 2006 the monitoring well network was expanded through the installation of three additional wells. The second monitoring event of the two-year program occurred in March 2006. Supplement 3 reports on the results of QA/QC activities during these first two monitoring events. The review of the quality of the analytical data generated during site monitoring was consistent with regulatory guidelines (EPA 1994).

S3.1 Sampling to Monitor Sampling Collection, Handling, and Analysis Procedures

Sample collection and handling activities were monitored by the documentation of samples as they were collected and the use of chain-of-custody (COC) forms (Supplement 4, on CD) and custody seals to ensure sample integrity during the handling and shipment of samples. The QA/QC samples collected during the 2005–2006 monitoring at Morrill included a field blank, equipment rinsates, trip blanks, replicate samples, and waste characterization samples. The QA/QC samples are listed in Table S3.1. Analytical results for these samples are in Table S3.2.

S3.1.1 Field Blank

One field blank of water used during monitoring activities was collected. Neither carbon tetrachloride nor chloroform was detected (Table S3.2).

S3.1.2 Equipment Rinsates

Four equipment rinsates were collected to monitor decontamination procedures for reusable sampling equipment. Carbon tetrachloride was not detected in the rinsates (Table S3.2), indicating that cross-contamination of groundwater samples did not occur during sample collection.

S3.1.3 Trip Blanks

As an indicator of cross-contamination of samples during shipment, 20 trip blanks were prepared and included with water samples shipped for organic analysis or methane analysis. Included in this total were 9 trip blanks sent to the AGEM Laboratory with samples for VOCs analyses; 2 trip blank sent to Envirosystems, Inc. (ENVSY), with samples for verification organic analysis; and 8 trip blanks sent to Severn-Trent Laboratories (STL) with samples for methane analysis. In addition, 1 trip blank was shipped with monitoring well vapor samples to Microseeps, Inc., for dissolved hydrogen analysis. Results for the trip blanks (Table S3.2) indicate that sample handling procedures were followed during the sampling event and that cross-contamination of samples did not occur during shipment.

S3.1.4 Replicate Groundwater Samples

As an indicator of the consistency of the sampling methodology and to provide a measure of analytical precision, eight replicate groundwater samples were collected, including four submitted to the AGEM Laboratory for VOCs analyses, two submitted to ENVSY for verification VOCs analyses, and two submitted to STL for inorganic and attenuation parameter analyses.

S3.1.5 Waste Characterization Samples

Six waste characterization samples were collected in September 2005, February 2006, and March 2006 for analysis at the AGEM Laboratory to determine the appropriate waste handling and disposal procedures. Samples of the stored wastewater and waste soil were also analyzed by M.D. Chemical and Testing in June 2006 (Supplement 5, on CD).

S3.2 Quality Control for Organic Analysis of Water Samples at the AGEM Laboratory

Groundwater sampling was conducted at 15 locations, including 12 monitoring wells and 3 private wells. Water samples shipped to the AGEM Laboratory were analyzed by the purge-and-trap method with a GC-MS system. For the purge-and-trap analyses, the VOCs present in

each groundwater sample were extracted (purged) from the sample matrix by bubbling an inert gas through the sample. The purged components were trapped in a specified sorbent tube. After the purging, the sorbent tube was heated and backflushed with an inert gas to desorb the components into the GC-MS system. The compounds eluting from the GC column were identified by retention time and by comparison with reference library spectra. The concentration of each component was calculated by comparison of the MS response with corresponding calibration curves, the responses for internal standards, or both. The internal standard recovery limits were 80–120%. Calibration checks with each SDG were required to be within ±20% of the standard.

Samples submitted to the AGEM Laboratory for organic analysis were analyzed in nine SDGs, as shown in Table S3.3. The QA/QC procedures followed included analysis of instrument calibration check standards, analysis of laboratory blanks, monitoring of surrogate spike recovery, and analysis of blind replicate samples. Significant results include the following:

- Samples shipped to the AGEM Laboratory were received with custody seals intact and at the appropriate temperature. All samples were analyzed within required holding times.

- Carbon tetrachloride and chloroform, contaminants of concern in the investigation, were not detected in laboratory method blanks analyzed with the samples. Methylene chloride was detected in the blank associated with some samples, resulting in qualification of the associated organic results (Table S1.3).

- For each SDG, analytical instrument calibration was monitored by the analysis of calibration check standards. The RPD values between the known and calculated concentrations of calibration check standards in all SDGs were within the acceptable range of ±20% (Table S3.3).

- Surrogate standard determinations were performed on samples and blanks by using surrogate spike compounds fluorobenzene, bromofluorobenzene, and 1,4-dichlorobenzene-d_4. The surrogate recoveries were within the specified range of 80–120% for all samples in either the initial analysis of the sample or a successful reanalysis (Table S3.3).

- Blind replicate groundwater samples were analyzed as a measure of consistency in the sampling and analytical methodologies. Table S3.4 summarizes the analytical results for carbon tetrachloride and chloroform for the primary samples and the associated replicate analyses. Consistency in both the sampling and analytical methodologies is indicated by the average RPD values of 16.4% for carbon tetrachloride and 12.5% for chloroform. Methylene chloride was not detected in any of the sample–replicate pairs analyzed at the AGEM Laboratory.

The analytical data from the AGEM Laboratory are acceptable for quantitative determination of contaminant distribution.

S3.3 Quality Control for Verification Organic Analysis of Groundwater Samples by ENVSY

In accordance with the QA/QC procedures defined in the *Master Work Plan* (Argonne 2002), the analyses of water samples at the AGEM Laboratory with EPA Method 524.2 were verified by a second laboratory using EPA-defined CLP methodology. Two groundwater samples — one from the existing monitoring well MW3S and the other from the KDHE-approved compliance well MW11S, installed in January 2006 — were analyzed according to CLP methodology at ENVSY. The results were reported in one SDG. The ENVSY data sheets are in Supplement 4, on CD. The quality of the ENVSY organic analytical data, obtained by using CLP methodology, is discussed below.

The QA/QC procedures followed in the CLP analysis included initial and continuing calibration of instruments, analysis of laboratory blanks, monitoring of surrogate spike recovery, and matrix spike/matrix spike duplicate analyses. Significant results include the following:

- Samples shipped to the CLP laboratory were received with custody seals intact and at the appropriate temperature. All samples were analyzed within required holding times.

- Analytical instruments were properly tuned; initial and continuing calibration checks remained within the allowable range for all contaminants of interest.

- Surrogate standard determinations were performed on samples and blanks by using the surrogate spike compounds toluene-d_8, bromofluorobenzene, and 1,2-dichloroethane-d_4. Table S3.5 shows the percent recovery of the system-monitoring compounds for each CLP analysis. The recovery values for the surrogate spikes were within the acceptable range (identified in Table S3.5) specific to each surrogate for the two replicate groundwater samples.

- The recovery of spike compounds and the RPD value for a spike/spike duplicate analysis conducted with the SDG was within QC limits.

- Carbon tetrachloride and chloroform were not detected in the laboratory method blanks. Methylene chloride was present in laboratory blanks at low concentrations, similar to the concentrations reported in all samples. As a result, the methylene chloride results for the verification samples are qualified (Table S3.6).

Analytical results for groundwater samples analyzed at AGEM Laboratory with EPA Method 524.2 are supported by the analytical results from ENVSY obtained with EPA CLP methodology. The verification organic results for the groundwater samples are summarized in Table S3.6.

Agreement between the two laboratories is acceptable, although for both samples higher carbon tetrachloride concentrations were reported by the AGEM Laboratory than by ENVSY. The sample from monitoring well MW3S, which has consistently had the highest level of carbon tetrachloride contamination during long-term monitoring, was analyzed by the AGEM Laboratory with a concentration of 91 µg/L and by ENVSY with a concentration of 62 µg/L, for an RPD value of 37.9%. Similarly, the sample from the newly installed downgradient monitoring well MW11S was analyzed by the AGEM Laboratory with a concentration of 39 µg/L and by ENVSY with a concentration of 30 µg/L, for an RPD value of 26.0%.

S3.4 Quality Control for Attenuation Parameter Analyses of Groundwater Samples by STL and Microseeps

Groundwater samples were collected in both September 2005 and March 2006 for analyses by STL to aid in evaluation of biodegradation processes according to EPA (1998a) protocols. The analyses included dissolved anion concentrations (chloride, sulfate, nitrate, and

phosphate) by EPA Method 300, total alkalinity by EPA Method 310.1, nitrate/nitrite nitrogen by EPA Method 353.2, nitrite nitrogen by EPA Method 354.1, sulfide by EPA Method 376.2, total organic carbon by EPA Method 415.1, and dissolved metals (aluminum, calcium, iron, magnesium, manganese, phosphorus, potassium, silicon, sodium, and zinc) by EPA Method 6010 (EPA 1998b). Analysis for the natural attenuation indicators methane, ethane, and ethane was conducted by using Method RSK-175 (Kampbell and Vandegrift, 1998). In addition, groundwater samples were collected in September 2005 from selected wells for dissolved hydrogen analysis by Microseeps Inc., with Method AM20GAX. The STL and Microseeps data sheets are in Supplement 4, on CD.

The inorganic and attenuation parameter analyses of the groundwater samples were conducted by STL in seven SDGs. The QA/QC procedures followed included instrument calibration through analysis of spiked calibration check standards, verification of interelement and background correction factors through analysis of inductively coupled plasma interference check samples, and analysis of laboratory QC samples.

Significant points are as follows:

- Samples shipped to STL and Microseeps were received with custody seals intact and at the appropriate temperature. Although the analyses of some samples at STL for nitrate and phosphate were performed beyond the 48-hr holding time specified by Method 300, the primary analyses of the samples for nitrate nitrogen were performed with Method 353.2 and preserved sample volumes. Holding times were met for other analyses.

- Analytical instruments at STL were properly tuned, and initial calibration checks were within the allowable limits. However, an observed offset in the continuing calibration associated with the ion chromatography analyses in some SDGs elevated results at or near the reporting limit. This trend is reflected in the positive results for some method blanks and performance blanks. The concentrations of associated samples were sufficiently elevated that qualification of the data is not warranted.

- Contaminants of concern were not detected in the laboratory method blanks associated with the samples; in the trip blanks shipped with samples to STL for

methane, ethane, and ethane analyses; or in the samples shipped to Microseeps for dissolved hydrogen analysis.

- Groundwater sample MRMW8S-W-19265 was improperly filtered prior to dissolved cation analysis in SDG 109712 at STL. The results are rejected as non-representative and are not reported (Table S1.4).

- Spiked samples were prepared by STL and analyzed with the investigational samples to evaluate the accuracy and precision the analytical methodology. Table S3.7 shows the percent recovery of each spike compound in these analyses. The recoveries of the target analytes were within the acceptable limits.

- The results for two blind replicate samples analyzed by STL agreed well with their associated primary samples, as shown in Table S3.8, with RPD values of 0.0%–25.4%.

The attenuation parameter results for groundwater samples from STL and Microseeps are acceptable for evaluation of biodegradation processes on the basis of the recovery of known concentrations of the analytes of concern in laboratory QC samples and the absence of contaminants in the trip blanks analyzed with the groundwater samples.

TABLE S3.1 Quality control samples collected during 2005–2006 monitoring at Morrill, Kansas.

Location	Sample	Sample Date	Time	Depth (ft below TOC)[a]	Sample Description
Field Blank					
QC	MRQCD-W-16548	02/01/06	18:00	–	Blank of water used during installation of monitoring wells MW9S, MW10S, and MW11S.
Equipment Rinsates					
QC	MRQCRI-W-16524	09/14/05	17:30	–	Rinsate of decontaminated Redi-Flo purge hose after sampling at MW2S.
QC	MRQCRI-W-16525	09/14/05	17:35	–	Rinsate of decontaminated bailer after sampling at MW8S.
QC	MRQCRI-W-19995	03/22/06	11:30	–	Rinsate of decontaminated sampling tube after sampling at MW11S.
QC	MRQCRI-W-20019	03/23/06	8:50	–	Rinsate of decontaminated sampling tube after sampling at MW3S.
Trip Blanks					
QC	MRQCTB-W-16519	09/13/05	12:00	–	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 1089.
QC	MRQCTB-W-16520	09/13/05	12:00	–	Trip blank sent to STL for methane analysis with samples listed on COC 1095.
QC	MRQCTB-W-16522	09/14/05	8:45	–	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 1893.
QC	MRQCTB-W-16523	09/14/05	8:45	–	Trip blank sent to STL for methane analysis with samples listed on COC 1094.
QC	MRQCTB-W-16526	09/14/05	17:40	–	Trip blank sent to to the AGEM Laboratory for organic analysis with samples listed on COC 1516.
QC	MRQCTB-W-16527	09/14/05	17:41	–	Trip blank sent to STL for methane analysis with samples listed on COC 1515.
QC	H2-Trip Blank	09/14/05		–	Trip blank sent to Microseeps, Inc., for dissolved hydrogen analysis with samples listed on COC 1548B.
QC	EVTB3-W-13226	02/01/06		–	Trip blank sent to the AGEM Laboratory with samples listed on COC 3242.
QC	EVFB-W-13239	02/14/06	15:57	–	Trip blank sent to the AGEM Laboratory with samples listed on COC 4547.
QC	MRQCFB-W-19997	03/20/06	12:45	–	Trip blank sent to the AGEM Laboratory with samples listed on COC 4515.
QC	MRQCFB-W-19998	03/20/06	12:45	–	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 4516.
QC	MRQCFB-W-20010	03/21/06	16:20	–	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 4211.
QC	MRQCFB-W-20011	03/21/06	16:30	–	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 4210.

TABLE S3.1 (Cont.)

Location	Sample	Sample Date	Time	Depth (ft below TOC)[a]	Sample Description
Trip Blanks (cont.)					
QC	MRQCFB-W-20007	03/22/06	15:04	–	Trip blank sent to ENVSY for verification organic analysis with MW11S sample listed on COC 3770.
QC	MRQCTB-W-20009	03/22/06	16:30	–	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 4212.
QC	MRQCTB-W-20012	03/22/06	16:45	–	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 3772.
QC	MRQCTB-W-20013	03/22/06	16:50	–	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 3771.
QC	EVQCTB-W-20105	03/23/06	18:15	–	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 4285 (Morrill and Everest samples) and COC 4286 (Everest samples).
QC	MRQCTB-W-20017	03/23/06	18:30	–	Trip blank sent to STL for attenuation parameter analysis with samples listed on COC 3777.
QC	EVQCTB-W-26120	03/23/06			Trip blank sent to ENVSY for verification organic analysis with MW3S sample listed on COC 3773.
Waste Characterization Samples					
QC	MRQCWADR-W-16510	09/14/05	16:00	–	Composite sample of waste purge water accumulated during September 2005 sampling.
MW9S	MR09S-G-16549	02/14/06	10:49	38.83–53.83	Well located at south fence line. Depth to water = 19.5 ft below TOC. Depth of well = 68.64 ft below TOC. Sample collected prior to development.
MW11S	MR11S-G-16550	02/14/06	11:17	53–68	Well located at west fence line. Depth to water = 37.35 ft below TOC. Depth of well = 73.60 ft below TOC. Sample collected prior to development.
MW10S	MR10S-G-16552	02/14/06	11:48	30–45	Depth to water = 11.80 ft below TOC. Depth of well = 49.65 ft below TOC. Sample collected prior to development.
QC	MRCM-G-16553	02/14/06	14:22	–	Sample of combined development water from MW9S, MW10S, and MW11S.
QC	MRQCDR-W-20020	03/23/06	10:15	–	Composite sample of purge water accumulated during the March 2006 sampling event.
Replicates Submitted to the AGEM Laboratory for Organic Analysis					
MW3S	MRQCDU-W-16521	09/13/05	17:00	18–48	Replicate of sample MRMW3S-W-19261.

TABLE S3.1 (Cont.)

Location	Sample	Sample Date	Time	Depth (ft below TOC)[a]	Sample Description
Replicates Submitted to the AGEM Laboratory for Organic Analysis (cont.)					
MW11S	MR11S-G-16551	02/14/06	11:29	53–68	Replicate of waste characterization sample MR11S-G-16550.
MW11S	MRQCDU-W-20002	03/22/06	11:25	53–68	Replicate of sample MRMW11S-W-20001.
MW3S	MRQCDU-W-20014	03/23/06	8:35	18–48	Replicate of sample MRMW3S-W-19994.
Samples Submitted to ENVSY for Verification Organic Analysis					
MW11S	MRQCMW11S-W-20006	03/22/06	11:25	53–68	Aliquots of sample MRMW11S-W-20001 sent to ENVSY for verification organic analysis.
MW3S	MRMW3S-W-19994	03/23/06	8:35	18–48	Existing 4-in. well south of former CCC/USDA facility. Depth to water from TOC = 35.62 ft. Depth of well = 49.74 ft below TOC. Sample collected after purging of 28 gal at approximately 1 gpm.
QC Replicates Submitted to STL for Inorganic and Attenuation Parameter Analyses					
MW11S	MRQCDU-W-20005	03/22/06	11:25	53–68	Aliquots of sample MRMW11S-W-20001 sent to STL for inorganic and attenuation parameter analyses.
MW3S	MRQCDU-W-20016	03/23/06	8:35	18–48	Aliquots of sample MRMW3S-W-19994 sent to STL for inorganic and attenuation parameter analyses.

[a] TOC, top of casing.

TABLE S3.2 Results for organic analyses on quality control samples collected to monitor sample collection and handling activities.

Sample	Sample Date	Medium	Type[a]	Analysis Date	Method[b]	Laboratory	Concentration (units as specified) Carbon Tetrachloride	Chloroform	Methylene Chloride	Methane	Dissolved Hydrogen	Quantitation Limit	Units
September 2005 Sampling Event													
MRQCTB-W-16519	9/13/05	Water	TB	9/14/05	524.2	AGEM	ND[c]	0.7 J[d]	ND	–[e]	–	1	µg/L
MRQCTB-W-16520	9/13/05	Water	TB	9/14/05	RSK-175	STL	–	–	–	< 2	–	1	µg/L
MRQCWADR-W-16510	9/14/05	Water	BT	9/16/05	524.2	AGEM	13	2.9	ND	–	–	1	µg/L
MRQCRI-W-16524	9/14/05	Water	RI	9/16/05	524.2	AGEM	ND	0.5 J	ND	–	–	1	µg/L
MRQCRI-W-16525	9/14/05	Water	RI	9/16/05	524.2	AGEM	ND	0.5 J	ND	–	–	1	µg/L
MRQCTB-W-16522	9/14/05	Water	TB	9/15/05	524.2	AGEM	ND	1	ND	–	–	1	µg/L
MRQCTB-W-16526	9/14/05	Water	TB	9/16/05	524.2	AGEM	ND	0.5 J	ND	–	–	1	µg/L
MRQCTB-W-16523	9/14/05	Water	TB	9/15/05	RSK-175	STL	–	–	–	< 2	–	1	µg/L
MRQCTB-W-16527	9/14/05	Water	TB	9/16/05	RSK-175	STL	–	–	–	< 2	–	1	µg/L
H2-Trip Blank	9/14/05	Vapor	TB	9/21/05	215.1	MicroSeeps	–	–	–	–	ND	1	nM
January–February 2006 Monitoring Well Installation													
MRQCD-W-16548	2/1/06	Water	FB	2/2/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
EVTB3-W-13226	2/1/06	Water	TB	2/2/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
MRCM-G-16553	2/14/06	Water	BT	2/15/06	524.2	AGEM	ND	0.2 J	ND	–	–	1	µg/L
MR10S-G-16552	2/14/06	Water	BT	2/15/06	524.2	AGEM	0	0	0	–	–	1	µg/L
MR11S-G-16550	2/14/06	Water	BT	2/15/06	524.2	AGEM	15	0.4 J	0	–	–	1	µg/L
MR09S-G-16549	2/14/06	Water	BT	2/15/06	524.2	AGEM	0	0	0	–	–	1	µg/L
EVFB-W-13239	2/14/06	Water	TB	2/15/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
March 2006 Sampling Event													
MRQCFB-W-19997	3/20/06	Water	TB	3/22/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
MRQCFB-W-19998	3/20/06	Water	TB	3/21/06	RSK-175	STL	–	–	–	<2	–	1	µg/L
MRQCFB-W-20011	3/21/06	Water	TB	3/22/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
MRQCFB-W-20010	3/21/06	Water	TB	3/22/06	RSK-175	STL	–	–	–	<2	–	1	µg/L
MRQCRI-W-19995	3/22/06	Water	RI	3/23/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
MRQCTB-W-20013	3/22/06	Water	TB	3/23/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
MRQCFB-W-20007	3/22/06	Water	TB	3/26/06	8260	ESIC	ND	ND	1.7 J B[f]		–	1	µg/L
MRQCTB-W-20009	3/22/06	Water	TB	3/24/06	RSK-175	STL	–	–	–	< 2	–	1	µg/L

TABLE S3.2 (Cont.)

Sample	Sample Date	Medium	Type[a]	Analysis Date	Method[b]	Laboratory	Concentration (units as specified) Carbon Tetrachloride	Chloroform	Methylene Chloride	Methane	Dissolved Hydrogen	Quantitation Limit	Units
March 2006 Sampling Event (cont.)													
MRQCTB-W-20012	3/22/06	Water	TB	3/24/06	RSK-175	STL	–	–	–	< 2	–	1	µg/L
MRQCDR-W-20020	3/23/06	Water	BT	3/24/06	524.2	AGEM	21	0.8 J	ND	–	–	1	µg/L
MRQCRI-W-20019	3/23/06	Water	RI	3/24/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
EVQCTB-W-20105	3/23/06	Water	TB	3/24/06	524.2	AGEM	ND	ND	ND	–	–	1	µg/L
EVQCTB-W-26120	3/23/06	Water	TB	3/27/06	8260	ESIC	ND	ND	1.8 J B		–	1	µg/L
MRQCTB-W-20017	3/23/06	Water	TB	3/24/06	RSK-175	STL	–	–	–	< 2	–	1	µg/L

[a] Sample types: BT, waste characterization; FB, field blank; RI, rinsate; TB, trip blank.

[b] Analytical methods: EPA Method 524.2 (EPA 1995); EPA Method 8260B (EPA 1998b); RSK-175 (Kampbell and Vandegrift 1998).

[c] ND, not detected at the method detection limit.

[d] Qualifier J indicates an estimated concentration below the indicated quantitation limit.

[e] Sample not analyzed for this constituent.

[f] Qualifier B indicates that the analyte was found in the associated method blank.

TABLE S3.3 Results for quality control procedures monitoring organic analyses of water samples at the AGEM Laboratory by the purge-and-trap method.

				Measured Concentration and RPD Value for Calibration Check Standard					
	Recovery of Surrogate Compounds[a] (%)			Carbon Tetrachloride		Chloroform		Methylene Chloride	
Sample	Fluorobenzene	Bromo-fluorobenzene	1,4-Dichloro-benzene-d4	(µg/L)	RPD[b]	(µg/L)	RPD[b]	(µg/L)	RPD[b]
SDG 05-9-14, Analysis Date September 14, 2005									
20-µg/L standard	107	112	105	17.63	3.1	18.81	1.5	20.06	0.1
Laboratory blank	100	100	100						
MRMW7S-W-19258	91	97	96						
MRMW5S-W-19260	103	115	112						
MRMW1D-W-16518	107	117	117						
MRMW1S-W-19259	98	105	104						
MRMW1S-W-19259DUP	108	114	113						
MRQCTB-W-16519	90	97	96						
SDG 05-9-15, Analysis Date September 15, 2005									
20-µg/L standard	114	116	111	22.5	2.9	23.38	3.9	25.42	6.0
Laboratory blank	100	100	100						
MRQCDU-W-16521	100	99	95						
MRMW6S-W-19263	110	111	106						
MRMW2S-W-19264	104	104	99						
MRMW4S-W-19262	99	100	96						
MRMW3S-W-19261	108	109	104						
MRMW3S-W-19261DUP	89	91	90						
MRQCTB-W-16522	90	90	88						
SDG 05-9-16, Analysis Date September 16, 2005									
20-µg/L standard	104	106	104	20.74	0.9	21.69	2.0	23.37	3.9
Laboratory blank	113	114	114						
MRPRILL-W-16512	113	110	112						
MRQCWADR-W-16510	104	113	114						

TABLE S3.3 (Cont.)

Sample	Recovery of Surrogate Compounds[a] (%)			Measured Concentration and RPD Value for Calibration Check Standard					
				Carbon Tetrachloride		Chloroform		Methylene Chloride	
	Fluorobenzene	Bromo-fluorobenzene	1,4-Dichloro-benzene-d4	(µg/L)	RPD[b]	(µg/L)	RPD[b]	(µg/L)	RPD[b]
SDG 05-9-16, Analysis Date September 16, 2005 (cont.)									
MRPRISCH-W-16513	101	104	104						
MRMW8S-W-19265	103	107	109						
MRPRSTON-W-16511	101	101	101						
MRPRSTON-W-16511DUP	101	100	101						
MRQCRI-W-16525	97	97	97						
MRQCRI-W-16524	95	94	92						
MRQCTB-W-16526	87	86	86						
SDG 06-2-2, Analysis Date February 2, 2006									
20-µg/L standard	85	95	95	16.54	4.7	19.66	0.4	22.71	3.2
Laboratory blank	100	100	100						
MRQCD-W-16548	93	92	94						
EVTB3-W-13226	88	88	93						
SDG 06-2-15, Analysis Date February 15, 2006									
20-µg/L standard	88	89	88	19.6	0.5	21.73	2.1	29.97	10.0
Laboratory blank	108	108	107						
EVFB-W-13239	101	101	102						
MR09S-G-16549	87	87	86						
MR11S-G-16550	86	91	92						
MR11S-G-16551	97	95	93						
MR10S-G-16552	87	88	89						
MRCM-G-16553	101	96	93						

TABLE S3.3 (Cont.)

Sample	Recovery of Surrogate Compounds[a] (%)			Measured Concentration and RPD Value for Calibration Check Standard					
				Carbon Tetrachloride		Chloroform		Methylene Chloride	
	Fluorobenzene	Bromo-fluorobenzene	1,4-Dichloro-benzene-d4	(µg/L)	RPD[b]	(µg/L)	RPD[b]	(µg/L)	RPD[b]
SDG 06-3-21 Analysis Date March 21, 2006									
20-µg/L standard	92	112	102	18.48	2.0	17.69	3.1	18.3	2.2
Laboratory blank	100	100	100						
MRRILINGER-W-19988	115	107	105						
MRMW6S-W-19990	109	105	101						
MRSTONE-W-19987	108	101	100						
MRMW8S-W-19991	107	96	98						
MRMW8S-W-19991DUP	101	95	95						
MRMW1D-W-19986	101	99	97						
MRQCFB-W-19997	81	78[c]	77[c]	Reanalyzed in SDG 06-3-22.					
SDG 06-3-22 Analysis Date March 22, 2006									
20-µg/L standard	100	102	99	16.98	4.1	22.68	3.1	18.3	2.2
Laboratory blank	100	100	100						
MRMW2S-W-19992	114	116	118						
MRMW2S-W-19992DUP	112	115	118						
MRMW4S-W-19993	112	118	120						
MRMW10S-W-19999	96	99	99						
MRQCFB-W-20011	109	110	111						
MRQCFB-W-19997	95	99	100						
SDG 06-3-23 Analysis Date March 23, 2006									
20-µg/L standard	87	90	84	19.36	0.8	20.97	1.2	18.3	2.2
Laboratory blank	114	115	116						
MRMW7S-W-20000	108	112	110						
MRQCDU-W-20002	100	101	100						
MRMW11S-W-20001	109	111	110						

TABLE S3.3 (Cont.)

Sample	Recovery of Surrogate Compounds[a] (%)			Measured Concentration and RPD Value for Calibration Check Standard					
				Carbon Tetrachloride		Chloroform		Methylene Chloride	
	Fluorobenzene	Bromo-fluorobenzene	1,4-Dichloro-benzene-d4	(µg/L)	RPD[b]	(µg/L)	RPD[b]	(µg/L)	RPD[b]
SDG 06-3-23 Analysis Date March 23, 2006 (cont.)									
MRQCTB-W-20013	87	89	89						
MRMW5S-W-19996	98	98	97						
MRMW9S-W-20004	88	87	88						
MRQCRI-W-19995	95	94	94						
MRMW1S-W-20008	93	94	92						
SDG 06-3-24 Analysis Date March 24, 2006									
20-µg/L standard	104	104	102	18.44	2.0	21.3	1.6	21.97	2.3
Laboratory blank	100	100	100						
MRISCH-W-19989	98	100	97						
MRQCDU-W-20014	99	102	102						
MRMW3S-W-19994	102	105	107						
MRMW3S-W-19994DUP	103	105	104						
MRQCDR-W-20020	96	97	95						
MRQCRI-W-20019	93	94	92						
EVQCTB-W-20105	92	93	88						

[a] Quality control range for surrogate recovery = 80–120%.

[b] Quality control range for RPD = ±20%.

[c] Surrogate recovery outside quality control range.

TABLE S3.4 Comparison of primary and secondary analyses of groundwater samples at the AGEM Laboratory during monitoring at Morrill, Kansas.

				Concentration (µg/L)								
				Sample			Replicate			Relative Percent Difference		
Location	Sample Type[a]	Sample	Replicate	Carbon Tetra-chloride	Chloro-form	Methylene Chloride	Carbon Tetra-chloride	Chloro-form	Methylene Chloride	Carbon Tetra-chloride	Chloro-form	Methylene Chloride
MW3S	MW	MRMW3S-W-19261	MRQCDU-W-16521	101	3.2	ND[b]	108	3.4	ND	6.7	6.1	–[c]
MW11S	BT	MR11S-G-16550	MR11S-G-16551	15	0.4 J[d]	ND	26	0.6 J	ND	53.7	40.0	–
MW11S	MW	MRMW11S-W-20001	MRQCDU-W-20002	39	0.9 J	ND	37	0.9 J	ND	5.3	0	–
MW3S	MW	MRMW3S-W-19994	MRQCDU-W-20014	91	2.6	ND	91	2.5	ND	0	3.9	–

[a] Sample types: BT, waste characterization; MW, monitoring well.

[b] ND, contaminant not detected at an instrument detection limit of 0.1 µg/L.

[c] RPD not calculated; analyte not detected.

[d] Qualifier J indicates an estimated concentration below the method quantitation limit of 1.0 µg/L.

TABLE S3.5 Recovery of system-monitoring compounds in verification organic analyses of water samples by ENVSY.

Sample	Analysis Date	SDG	Recovery[a] (%) Toluene-d_8	Bromofluoro-benzene	1,2-Dichloro-ethane-d_4
VBLKHP	3/26/06	0605045	102	92	98
MRQCMW11S-W-20006	3/26/06	0605045	104	94	102
MRQCFB-W-20007	3/26/06	0605045	102	92	102
MRMW3S-W-19994	3/26/06	0605045	102	90	100
VBLKHQ	3/27/06	0605045	100	90	98
VBLKHY	3/27/06	0605045	100	92	102
EVQCTB-W-26120	3/27/06	0605045	100	90	102
VHBLKHY	3/27/06	0605045	100	92	104

[a] Quality control ranges:

Compound	Recovery (%)
Toluene-d_8	88–110
Bromofluorobenzene	86–115
1,2-Dichloroethane-d_4	76–114

TABLE S3.6 Comparison of organic results for verification analyses by ENVSY during monitoring at Morrill, Kansas.

Location	AGEM Laboratory Sample	ENVSY Sample	Concentration (µg/L)						Relative Percent Difference		
			AGEM Laboratory			ENVSY					
			Carbon Tetra-chloride	Chloro-form	Methylene Chloride	Carbon Tetra-chloride	Chloro-form	Methylene Chloride	Carbon Tetra-chloride	Chloro-form	Methylene Chloride
MW3S	MRMW3S-W-19994	MRMW3S-W-19994	91	2.6	ND[a]	62	2.1 J[b]	1.6 J B[c]	37.9	21.3	–[d]
MW11S	MRMW11S-W-20001	MRQCMW11S-W-20006	39	0.9 J	ND	30	ND	1.6 J B	26.0	–	–

[a] ND, contaminant not detected.

[b] Qualifier J indicates an estimated concentration below the method quantitation limits of 1.0 µg/L for purge-and-trap analysis at the AGEM Laboratory or 5.0 µg/L for CLP analysis by ENVSY.

[c] Qualifier B indicates that methylene chloride was present in the laboratory blank associated with the sample analysis.

[d] RPD not calculated.

TABLE S3.7 Recovery of known analyte concentrations achieved during inorganic and attenuation parameter analyses of laboratory quality control samples by STL.

	Recovery[a] (%) in SDG						
Compound	109662	109677	109712	113239	113257	113285	113321
Alkalinity	107	107	107	108	108	108	108
Nitrate	91-95	93-97	97	99	89-97	89-91	96
Phosphate	90	89	93	97-102	86	93	100
Sulfate	98	97-101	97	100-109	99	101	99
Chloride	93-96	93-99	96	100	104	93	96
Nitrate/Nitrite N	90	90-94	97	97-98	95-98	94-97	94
Nitrite Nitrogen	96	96	93	99	99	92	90
Sulfide	97	100	100	92	92	90-92	90
Aluminum	105.2	97.6	NA[b]	94.7	94.7	97.2	107.1
Calcium	105.2	104	NA	94.2	94.2	96.9	99
Iron	99.2	103.4	NA	91.2	91.2	96.2	95.3
Magnesium	105.7	104.8	NA	95	95	97	99.1
Manganese	105.6	105.5	NA	90.6	90.6	88.9	92.6
Phosphorus	103.9	106.6	NA	90.9	90.9	87.7	92.1
Potassium	97.3	94.1	NA	95.3	95.3	91	101.4
Silicon	101.2	98.9	NA	106.4	106.4	103.8	108.8
Sodium	108.1	103.1	NA	95.3	95.3	94.4	99.6
Zinc	100.7	102.1	NA	100.9	100.9	87.3	90.9
Total Organic Carbon	106	106	100	96	97	96	97
Methane	103	104	104	114	122	122	86
Ethane	93	100	100	114	121	121	100
Ethene	92	100	100	115	123	123	100

[a] Quality control ranges:

Parameters	Recovery (%)
Inorganic	85–115
Attenuation	70–130

[b] NA, samples in this SDG were not analyzed for the indicated parameter.

TABLE S3.8 Relative percent difference values for inorganic and attenutation parameter analyses of samples and replicates by STL.

	Concentration (µg/L)			Concentration (µg/L)		
	Sample MRMW11S-W-20001	Replicate MRQCDU-W-20005	RPD	Sample MRMW3S-W-19994	Replicate MRQCDU-W-20016	RPD
Alkalinity	316000	316000	0.0	287000	286000	0.3
Aluminum	< 200	< 200	–[a]	< 200	< 200	–
Calcium	90500	96400	6.3	90500	91800	1.4
Chloride	8220	8310	1.1	3850	3870	0.5
Ethane	< 4	< 4	–	< 4	< 4	–
Ethene	< 3	< 3	–	< 3	< 3	–
Hydrogen	NA	NA	–	NA	NA	–
Magnesium	30500	32400	6.0	15500	15800	1.9
Manganese	< 15	< 15	–	< 15	< 15	–
Methane	< 2	< 2	–	< 2	< 2	–
Nitrate	21800	21600	0.9	15200	15400	1.3
Nitrite Nitrogen	5.2	6.1	15.9	< 5	< 5	–
Nitrate/Nitrite Nitrogen	20300	20400	0.5	13400	13800	2.9
Phosphate	< 200	< 200	–	< 200	< 200	–
Phosphorus	< 250	< 250	–	< 250	< 250	–
Potassium	< 5000	< 5000	–	< 5000	< 5000	–
Silicon	7480	7450	0.4	7270	7310	0.5
Sodium	22600	24000	6.0	20100	20400	1.5
Sulfate	25200	25200	0.0	22800	22700	0.4
Sulfide	< 20	< 20	–	< 20	< 20	–
Total Organic Carbon	2190	1880	15.2	1950	1510	25.4
Zinc	< 20	< 20	–	< 20	< 20	–

[a] RPD not calculated.

Supplement 4:

Chain-of-Custody Forms and Outside Laboratory Data

Supplement 4 Contents

MATRIX: WATER
RECEIVING LAB: AGEM
PROJECT/SITE: MORRILL
SAMPLER(S) (Signature): B Marschold

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info: 8389 2394 8949
ANL Field Contact (Name & Temporary Phone): Barney Marschold

To John Taylor
630 319 5543

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
12 SEP 05	MRMW07S-W-19258	6	✓	~~1750~~ BM
13 SEP 05	MRMW1D-W-16518	6	✓	
	MRMW15-W-19259	6	✓	
	MRMW55-W-19260	6	✓	
13 SEP 05	MRQCTB-W-16519	2	✓	QC TRIP BLANK

BM

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
B Marschold	13 SEP 05	1300 HR					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Jorge Alvarado	9/14/05	10:10 am	T = 4°C

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your poossession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (10-92)

MATRIX: WATER	**ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD***	Shipping Container No. Red/Wht/Med
RECEIVING LAB: AGEM		Shipping Info: 838923448950
PROJECT/SITE: MOARILL		ANL Field Contact (Name & Temporary Phone):
SAMPLER(S) (Signature) BMarshall		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
14 SEP 05	MRMW65-W-19263	6		
14 SEP 05	MRQCTB-W-16522	2		TRIP BLANK
13 SEP 05	MRQCDU-W-16521	6		
13 SEP 05	MRMW35-W-19261	6		
14 SEP 05	MRMW25-W-19264	6		
14 SEP 05	MRMW65-W-19263	6		MW45-19262

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
BMarshall	14 SEP 05	1245 HR					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				9/15/05	9:45	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (12-94)

MATRIX:	WATER
RECEIVING LAB:	AGEM
PROJECT/SITE:	Morrill
SAMPLER(S) (Signature)	B.M. Marshall

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info: 9389 2394 8904
ANL Field Contact (Name & Temporary Phone):

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	ANALYSIS: e	REMARKS
14 SEP 05	MRMW85-W-19265	6	✓		
↓	MRQCRI-W-16524	1	✓		QC Rinsate → Lonby ?
↓	MRQCRI-W-16525	1	✓		QC Rinsate → Lonby ?
14 SEP 05	MRQCTB-W-16526	2	✓		TRIP BLANK
14 SEP 05	MRQCWADR-W-16510	2	✓		Waste Drum Composite
~~14 SEP 05~~ e	~~MRRRRPBM~~			e	
14 SEP 05	MRPR-STON-W-16511	6	✓		STONE ~~Dom~~ well
14 SEP 05	MRPRILL-W-16512	6	✓		
14 SEP 05	MRPRISCH-W-16513	6	✓		

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
B.M. Marshall	15 Sep 05	1030 MR					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			M Lore	9/16/05	9:30	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (12-94)

3242

MATRIX: WATER	**ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD***	Shipping Container No.
RECEIVING LAB: ANL		Shipping Info:
PROJECT/SITE: EVEREST Pump Test - Monitor wells		ANL Field Contact (Name & Temporary Phone):
SAMPLER(S) (Signature) L.M. Thomas		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
Feb 1, 2006	EVSB 79-W-13222	7	7	Priority
Feb 1, 2006	EVSB 79-W-13223	6	6	Priority
Feb 1, 2006	EVSB 79-W-13224	6	6	
Feb 1, 2006	EVBR2-W-13225 ✓	2	2	
Feb 1, 2006	EVTB3-W-13226 ✓	2	2	
Feb 1, 2006	EVGCD-W-13227 ✓	2	2	
Feb 1, 2006	MRGCD W-16548 ✓	2	2	Morrill
29/01/06	CNGCD-W-16549 ✓	2	2	
	~~MR-DCD-W-16548~~			

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
L.M. Thomas	1 Feb 06		Dan C. Bin				
Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks	
			Joyce Almond	02/02/06	9:45 am	T = 4°C	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

4547

MATRIX: Water
RECEIVING LAB: Argonne
PROJECT/SITE: Morrill, KS
SAMPLER(S) (Signature): Joe Combs

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone):

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: volatiles										REMARKS
Feb. 14 2006	MR09S-G-16549	4	x										
Feb. 14 2006	MR11S-G-16550	4	x										
Feb. 14 2006	MR11S-G-16551	4	x										duplicate
Feb. 14 2006	MR10S-G-16552	4	x										
Feb. 14 2006	MRCM-G-16553	4	x										purge/development water
Feb. 14 2006	CNCM-G-16199	4	x			Centralco							" "
Feb. 14 2006	EVCM-G-13238	4	x			Everest							" "
Feb. 14 2006	EV-FB-W-13239	2	x			Everest							Field Blank

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe Combs	2/14/06	1900					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Joyce Abrams	02/15/06	9:50 am	T=4°C

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

4515

MATRIX: WATER
RECEIVING LAB: AGEM
PROJECT/SITE: MORRILL, KS
SAMPLER(S) (Signature): J. C. Combs

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): DARYL BIERE 402/416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
19 MAR 06	MR-MW-1D-W-19986	4	✓	
19 MAR 06	MR-STONE-W-19987	4	✓	
19 MAR 06	MR-RICINGER-W-19988	4	✓	
20 MAR 06	MR-MW-6S-W-19990	4	✓	
20 MAR 06	MR-MW-8S-W-19991	4	✓	
20 MAR 06	MR-QCFB-W-19997	2	✓	QC FIELD BLANK

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
J. C. Combs	20/03/06	1800					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3/21/06	9:30	

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

4210

MATRIX: WATER	**ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD***	Shipping Container No.
RECEIVING LAB: AGEM		Shipping Info:
PROJECT/SITE: MORRILL, KS		ANL Field Contact (Name & Temporary Phone): DARYL BIERE 402/416-7255
SAMPLER(S) (Signature) Jr C. Gmbz		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
21 MAR 06	MRMW4SW19993	4	✓	
21 MAR 06	MRMW2SW19992	4	✓	
21 MAR 06	MRMW10SW19999	4	✓	
21 MAR 06	MRQCFBW20011	2	✓	QC FIELD BLANK

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Jr C. Gmbz	21/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3/22/06	9:00	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

3771

MATRIX: WATER	**ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD***	Shipping Container No.
RECEIVING LAB: AGEM		Shipping Info:
PROJECT/SITE: MORRILL, KS		ANL Field Contact (Name & Temporary Phone): DARYL BIERE 402/416-7255
SAMPLER(S) (Signature) Joe C Gonka		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
22 MAR 06	MRMW9SW20004	4	✓	
22 MAR 06	MRMW7SW20000	4	✓	
22 MAR 06	MRMW11SW20001	4	✓	
22 MAR 06	MRQCRIW19995	2	✓	QC RINSATE
22 MAR 06	MRQCDUW20002	2	✓	QC DUPLICATE
~~22 MAR 06~~	~~MRQCFBW20007~~	~~2~~	~~✓~~	
22 MAR 06	MRMW5SW19996	4	✓	
22 MAR 06	MRMW1SW20008	4	✓	
22 MAR 06	MRQCTBW20013	2	✓	QC TRIP BLANK

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe C Gonka	22/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Joyce Edwards	3/23/06	9.55 am	T = 4°C

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

4285

MATRIX: WATER	**ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD***	Shipping Container No.
RECEIVING LAB: EVS/AGEM		Shipping Info:
PROJECT/SITE: EVEREST MONITORING		ANL Field Contact (Name & Temporary Phone): DARYL 402-416-7255
SAMPLER(S) (Signature) DARYL/JOE/TRAVIS		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
3/23/06	EVQCDU-W-20118	4	✓	
	EVMW4-W-20117	4		
	EVMW5-W-20116	4		
	////////////			
	MR-QCDR-W-20020	4		
	MR-QCRI-W-20019	~~3~~ 2		
	MR-MW35-W-19994	4		
	MR 15CH-W-19989	4		
	MR-QCDU-W-20014	4	✓	
	////////////			
↓	EV-QCRI-W-20121	4	✓	

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
B Sidney	3/23/06	18:25					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Joyce Alvarado	3/24/06	9:45 am	T=4C

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

4286

MATRIX: WATER
RECEIVING LAB: EVS / AGEM
PROJECT/SITE: EVEREST MONITORING
SAMPLER(S) (Signature): Bob Dedivy

ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): 402-429-5144

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS VOC	REMARKS
3/23/06	EVSB72-W-20100	6		TO BE PACKED ALONG WITH OTHER SAMPLES COLLECTED BY DARYL/JOEL TRAVIS
	EVSB72-W-20101	6		
	EVSB18-W-20102	6		
	EVMW1-W-20103	6		
	EVQCBR-W-20104	1		
	EVQCTB-W-20105	1		TRIP BLANK
	EVSB01-W-20106	6		

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Bob Dedivy	3/23/06	18:15					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Joyce Abraad	3/24/06	9:45 am	T=4°C

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

MATRIX: WATER	ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD*	Shipping Container No. 831434979123
RECEIVING LAB: Severn Trent		Shipping Info: Fedex [redacted]
PROJECT/SITE: Morris		ANL Field Contact (Name & Temporary Phone): BARNEY NASHOLD
SAMPLER(S) (Signature) BWNasholds		% John Taylor 630 319 5543

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: METHANE	SULFIDE	CATIONS	TOC	TotalN	Anions	Alkalinity	REMARKS
12 SEP 05	MRMW07S-W-19258	8	2	1	1	2	1	1		(1750 HR)
13 SEP 05	MRMW15-W-19259	8	2	1	1	2	1	1		(1000 HR)
13 SEP 05	MRMW55-W-19260	8	2	1	1	2	1	1		(1220 HR)
13 SEP 05	MRQCTB-W-16520	2	2							

TOC and Total N preserved to pH<2 w/ H_2SO_4

Sulfide preserved w/ zinc acetate & pH>9 w/ sodium hydroxide.

Anion sample time sensitive because of Nitrate analysis

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
BWNasholds	13 SEP 05	1300 HR	[signature] 9/14/05 0730				

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your poossession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (10-92)

3

| | | |

MATRIX: WATER
RECEIVING LAB: Severn Trent
PROJECT/SITE: Morrill
SAMPLER(S) (Signature) BWMarshall

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No. Med Redsunt
Shipping Info: 8314349979156
ANL Field Contact (Name & Temporary Phone): Contact=Jorge Alvarado, ANL

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: CATIONS	ANIONS/ALKALINITY	SULFIDE	TOTAL N	METHANE	TOC	REMARKS
14 SEP 05	MRMW85-W-19265	8	1	1	1	1	2	2	
14 SEP 05	MRQCTB-W-16527	2					2		Methane Trip
									Sulfide - pH >9 NaOH + Zn acetate
									TOC + TN pH<2 H_2SO_4
									Anions time sensitive due to nitrate analysis

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
BWMarshall	15 Sep 05	1000 MR	9/16/05 0830				

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (12-94)

4516

MATRIX: WATER
RECEIVING LAB: SEVERN - TRENT
PROJECT/SITE: MORRILL, KS
SAMPLER(S) (Signature): Joe C. Gomez

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): DARYL BIERE 402/416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: TOC	METHANE	ANIONS + ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
20 MAR 06	MR-MW-65-W-19990	8	✓	✓	✓	✓	✓	✓	TOC preserved pH<2 H_2SO_4
20 MAR 06	MR-MW-83-W-19991	8	✓	✓	✓	✓	✓	✓	Anions & Alkalinity - RUSH
20 MAR 06	MR-QCFB-W-19998	2		✓					Total N preserved pH<2 H_2SO_4

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe C. Gomez	20/03/06	1800					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3-21-06	0930	

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

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ER-160 (4-01)

MATRIX: WATER
RECEIVING LAB: SEVERN-TRENT
PROJECT/SITE: MORRILL, KS
SAMPLER(S) (Signature) Joe C. Gomez

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): PARYL BIERE 402/416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	TOC	METHANE	ANIONS & ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
21 MAR 06	MRMW45W19993	8	✓	✓	✓	✓	✓	✓	TOC preserved pH<2 H_2SO_4
21 MAR 06	MRMW25W19992	8	✓	✓	✓	✓	✓	✓	Anions & Alkalinity - RUSH
21 MAR 06	MRMW10SW19999	8	✓	✓	✓	✓	✓	✓	Total N preserved pH<2 H_2SO_4
21 MAR 06	MRQCFBW20010	2		✓					

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe C Gomez	21/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3/22/06	1000	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
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ER-160 (4-01)

MATRIX: WATER	ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD*	Shipping Container No.
RECEIVING LAB: SEVERN - TRENT		Shipping Info:
PROJECT/SITE: MORRILL, KS		ANL Field Contact (Name & Temporary Phone): DARYL BIERE 402/416-7255
SAMPLER(S) (Signature) Jh C. Combs		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: TOC	METHANE	ANIONS - ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
22 MAR 06	MRMW95W20004	8	✓	✓	✓	✓	✓	✓	Toc preserved pH<2 H_2SO_4
22 MAR 06	MRMW75W20000	8	✓	✓	✓	✓	✓	✓	Anions & Alkalinity - RUSH
22 MAR 06	MRMW11SW20001	8	✓	✓	✓	✓	✓	✓	Total N preserved pH<2 H_2SO_4
22 MAR 06	MRMW5SW19996	8	✓	✓	✓	✓	✓	✓	
22 MAR 06	MRQCTBW20009	2		✓					

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Jh C. Combs	22/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3-23-06	0945	

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

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2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

3772

MATRIX: WATER
RECEIVING LAB: SEVERN - TRENT
PROJECT/SITE: MORRILL, KS
SAMPLER(S) (Signature) Joe C. Gomez

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): DARYL BYERS 402/416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	TOC	METHANE	ANIONS ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
22 MAR 06	MRQCDUW20005	8	✓	✓	✓	✓	✓	✓	
22 MAR 06	MRMW1SW20008	8	✓	✓	✓	✓	✓	✓	
22 MAR 06	MRQCTBW20012	2		✓					

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe C. Gomez	22/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3-23-06	0945	

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

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ER-160 (4-01)

MATRIX: Water
RECEIVING LAB: Severn Trent Lab
PROJECT/SITE: Murdock NE.
SAMPLER(S) (Signature): Daryl Bia

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): Daryl Bia 402-416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: TOC	Methane, Ethane, Alkalinity	Cations	Total N	Sulfide	REMARKS
March 23-2006	MR-QCDU-W-20016	8	✓	✓	✓	✓	✓	Toc preserved pH<2 H2 SO4
March 23-2006	MR-MW35-W-19994	8	✓	✓	✓	✓	✓	Anions + Alkalinity - RUSH
March 23-2006	MR-QCTB-W-20017	2		✓				Total N preserved pH2 SO4

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Daryl Bia	March 23-2006	1912					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3/24/06	0920	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

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ER-160 (4-01)

3770

MATRIX: Water
RECEIVING LAB: Enviorsystems Inc
PROJECT/SITE: Morrill KS.
SAMPLER(S) (Signature) Daryl Biere

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): Daryl Biere (402) 416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
March 22-2006	MR QC mw-115-W-20006	2	✓	2-40mL - MW 115
March 22-2006	MR QC FB-W-20007	2	✓	2-40mL Distilled Water

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Daryl Biere	March 22-2006	1506					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
	3/23/06	9 45	Barbara Crook			

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
✓		Sample containers were intact when received.
✓		Shipment was at required temperature when received.
✓		Sample labels, Tags and COC agree.

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4. It is in a designated secure area.

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ER-160 (4-01)

Temp 2 °C cooler

3773

MATRIX: WATER
RECEIVING LAB: ENVIROSYSTEMS, INC
PROJECT/SITE: EVEREST, KS
SAMPLER(S) (Signature) Joe Combs

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone):

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
23 MAR 06	MRMW3SW19994	2	✓	
23 MAR 06	EVMW4W20117	2	✓	EVEREST SAMPLE
23 MAR 06	EVQCTBW26120	2	✓	

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe Combs	23/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Barbara Crook	3/24/06	10 45	Cooler Temp 2°C

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
✓		Sample containers were intact when received.
✓		Shipment was at required temperature when received.
✓		Sample labels, Tags and COC agree.

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ER-160 (4-01)

P050925 1548 B

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 **Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238** Fax No. : (412) 826-3433

Company : Argonne National Lab
Co. Address : 9700 S. Cass Ave
Proj. Manager: Lorraine LaFreniere
Proj. Location: Morrill
Proj. Number: Contact Jorge Alvarado 6302525767
Phone # : **Fax # :**

Sampler's signature :

Results to : Jorge Alvarado (630 252 5767)
Invoice to : per contract

Cooler ID	Cooler Temp.
	ambient

2005

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Parameters Requested: Dissolved Hydrogen	Remarks
01 vial	MRMW07S-A-19258	12 SEP	1705				✓	
02	MRMW15-A-19259	13 SEP	0930				✓	
03	MRMW55-A-19260	13 SEP	1145				✓	
04	MRMW35-A-19261	13 SEP	1610				✓	
05	MRMW45-A-19262	13 SEP	1745				✓	
06 vial	MRMW25-A-19264	14 SEP	1020				✓	
07 vial	TRIP BLANK	—	—				✓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
BW Manhold	ANL	15 SEP 05	1100 HR			9/16/05	1038
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

November 15, 2005

Mr. Clyde Dennis
Argonne National Laboratory
9700 S. Cass Avenue
Bldg. 203, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: MORRILL; SDG: 109662

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on September 14th, 2005. This report is sequentially numbered starting with page 1 and ending with page 82. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 09/14/05 ETR No: 109662		
637482	MRMW07S-W-19258	09/12/05	Water
637483	MRMW1S-W-19259	09/13/05	Water
637484	MRMW5S-W-19260	09/13/05	Water
637485	MRQCTB-W-16520	09/13/05	Water
637486	MRMW07S-W-19258F	09/12/05	Filtrate
637487	MRMW1S-W-19259F	09/13/05	Filtrate
637488	MRMW5S-W-19260F	09/13/05	Filtrate

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. The analytical work for nitrate nitrogen and ortho-phosphate occurred after the 48-hour holding time specified by Method 300.0. The analytical work for nitrite nitrogen was performed within the 48-hour holding time specified by Method 354.1.

Sample volumes were filtered by the laboratory through a 0.45-micron filter prior to being analyzed for alkalinity. An "F" suffix has been added to the sample identifiers to distinguish these sample volumes as being filtrates. The analytical work for each of the other parameters was performed without a specific filtration of the sample volumes, although, for the ion chromatography analysis, the instrumentation has within it a pretreatment system that does provide filtration as a function of routine operation.

The primary analysis of the samples for nitrate nitrogen was performed in the context of USEPA Method 353.2, using preserved sample volumes. Secondarily, results for nitrate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit. This is reflected in the positive results in the analysis of the method blanks and in the analysis of performance blanks.

The primary analysis of the samples for phosphorus was performed in the context of SW846 Method 3010A/6010B. Secondarily, results for orthophosphate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that, for this parameter as well, there was an observed offset in the calibration associated with the ion chromatography analysis that had the potential to elevate results at or near the reporting limit. This is reflected in the positive results in the analysis of the method blank and in the analysis of performance blanks.

The samples were analyzed for total organic carbon by USEPA Method 415.1.

The samples were analyzed for methane, ethane, and ethene by Method RSK-175. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. A laboratory control sample was prepared and analyzed in association with the samples, and there was an acceptable recovery of the target analytes in that analysis. The method blank that was analyzed in association with the samples was free of contamination.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Kirk F. Young
Project Manager

KFY/hsf
Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

MATRIX: WATER

RECEIVING LAB: Severn Trent

PROJECT/SITE: Morris II

SAMPLER(S) (Signature) BWMarshall

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No. 831434979123

Shipping Info: Fedex [redacted]

ANL Field Contact (Name & Temporary Phone):
BARNEY NASHOLD
& John Taylor
630 319 5543

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: METHANE	SULFIDE	CATIONS	TOC	TOTAL N	Anions	Alkalinity	REMARKS
12 SEP 05	MRMW07S-W-19258	8	2	1	1	2	1	1		(1750 HR)
13 SEP 05	MRMW15-W-19259	8	2	1	1	2	1	1		(1000 HR)
13 SEP 05	MRMW55-W-19260	8	2	1	1	2	1	1		(1220 HR)
13 SEP 05	MRQCTB-W-16520	2	2							

TOC and Total N preserved in field to pH<2 w/ H_2SO_4
Sulfide preserved w/ zinc acetate + pH>9 / sodium hydroxide.

Anion sample time sensitive because of Nitrate analysis

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
BWMarshall	13 SEP 05	1300 HR	[signature]				

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

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ER-160 (10-92)

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW07S-W-19258

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109662

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637482

Matrix: WATER | Client: ARGLAB | Date Received: 09/14/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	09/17/05	BLKIC091705A	ug/L	1	200	12000	
300.0	Sulfate	09/19/05	BLKIC091905D	ug/L	2	400	23300	
300.0	Nitrate as N	09/19/05	BLKIC091905C	ug/L	2	400	18000	
300.0	O-Phosphate as P	09/19/05	BLKIC091905E	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	09/17/05	BLKNN091705A	ug/L	20	200	19800	
354.1	Nitrite Nitrogen	09/14/05	BLKNI091405A	ug/L	1	5.0	5.0	U
376.2	Sulfide	09/15/05	BLKSL091505A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	09/16/05	BLKTO091605C	ug/L	1	1000	1000	U

Printed on: 11/11/05 01:27 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW1S-W-19259

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109662

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637483

Matrix: WATER | Client: ARGLAB | Date Received: 09/14/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	09/19/05	BLKIC091905B	ug/L	10	2000	85400	
300.0	Sulfate	09/19/05	BLKIC091905D	ug/L	10	2000	31100	
300.0	Nitrate as N	09/17/05	BLKIC091705C	ug/L	1	200	14200	
300.0	O-Phosphate as P	09/19/05	BLKIC091905E	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	09/17/05	BLKNN091705A	ug/L	20	200	14500	
354.1	Nitrite Nitrogen	09/14/05	BLKNI091405A	ug/L	1	5.0	21.2	
376.2	Sulfide	09/15/05	BLKSL091505A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	09/16/05	BLKTO091605C	ug/L	1	1000	1000	U

Printed on: 11/11/05 01:27 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW5S-W-19260

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109662

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637484

Matrix: WATER | Client: ARGLAB | Date Received: 09/14/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	09/17/05	BLKIC091705A	ug/L	1	200	11400	
300.0	Sulfate	09/19/05	BLKIC091905D	ug/L	5	1000	41400	
300.0	Nitrate as N	09/19/05	BLKIC091905C	ug/L	5	1000	18300	
300.0	O-Phosphate as P	09/19/05	BLKIC091905E	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	09/17/05	BLKNN091705A	ug/L	20	200	20900	
354.1	Nitrite Nitrogen	09/14/05	BLKNI091405A	ug/L	1	5.0	14.8	
376.2	Sulfide	09/15/05	BLKSL091505A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	09/16/05	BLKTO091605C	ug/L	1	1000	1000	U

Printed on: 11/11/05 01:27 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW07S-W-19258F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109662

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637486

Matrix: FILTRATE | Client: ARGLAB | Date Received: 09/14/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/22/05	BLKAL092205A	ug/L	1	1000	303000	
310.1	Bicarbonate Alkalinity	09/22/05	BLKAL092205B	ug/L	1	1000	303000	
310.1	Carbonate Alkalinity	09/22/05	BLKAL092205C	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/22/05	BLKAL092205D	ug/L	1	1000	1000	U

Printed on: 11/11/05 01:27 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW1S-W-19259F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109662

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637487

Matrix: FILTRATE | Client: ARGLAB | Date Received: 09/14/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/22/05	BLKAL092205A	ug/L	1	1000	304000	
310.1	Bicarbonate Alkalinity	09/22/05	BLKAL092205B	ug/L	1	1000	304000	
310.1	Carbonate Alkalinity	09/22/05	BLKAL092205C	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/22/05	BLKAL092205D	ug/L	1	1000	1000	U

Printed on: 11/11/05 01:27 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW5S-W-19260F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109662

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637488

Matrix: FILTRATE | Client: ARGLAB | Date Received: 09/14/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/22/05	BLKAL092205A	ug/L	1	1000	292000	
310.1	Bicarbonate Alkalinity	09/22/05	BLKAL092205B	ug/L	1	1000	292000	
310.1	Carbonate Alkalinity	09/22/05	BLKAL092205C	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/22/05	BLKAL092205D	ug/L	1	1000	1000	U

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SEVERN TRENT STL

Sample Data Summary Package For Metals

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: _____ SDG No.: 109662

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MRMW07S-W-19258F	637486
MRMW1S-W-19259F	637487
MRMW5S-W-19260F	637488

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

COVER PAGE - IN

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW07S-W-19258F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109662

Matrix (soil/water): WATER Lab Sample ID: 637486

Level (low/med): LOW Date Received: 09/14/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	164	B		P
7440-70-2	Calcium	105000			P
7439-89-6	Iron	142	B		P
7439-95-4	Magnesium	22400			P
7439-96-5	Manganese	1.9	U		P
7723-14-0	Phosphorous	26.6	B		P
7440-09-7	Potassium	1340	B		P
7440-21-3	Silicon	7530			P
7440-23-5	Sodium	26700			P
7440-66-6	Zinc	7.1	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW1S-W-19259F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109662

Matrix (soil/water): WATER Lab Sample ID: 637487

Level (low/med): LOW Date Received: 09/14/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	54.6	U		P
7440-70-2	Calcium	126000			P
7439-89-6	Iron	84.3	U		P
7439-95-4	Magnesium	28200			P
7439-96-5	Manganese	1.9	U		P
7723-14-0	Phosphorous	24.2	U		P
7440-09-7	Potassium	1100	B		P
7440-21-3	Silicon	7520			P
7440-23-5	Sodium	41100			P
7440-66-6	Zinc	2.3	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW5S-W-19260F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109662

Matrix (soil/water): WATER Lab Sample ID: 637488

Level (low/med): LOW Date Received: 09/14/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	54.6	U		P
7440-70-2	Calcium	102000			P
7439-89-6	Iron	84.3	U		P
7439-95-4	Magnesium	29300			P
7439-96-5	Manganese	1.9	U		P
7723-14-0	Phosphorous	24.2	U		P
7440-09-7	Potassium	1130	B		P
7440-21-3	Silicon	8550			P
7440-23-5	Sodium	17700			P
7440-66-6	Zinc	5.6	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

SEVERN TRENT STL

RSK-175

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

RMW07SW19258

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109662

Matrix: (soil/water) WATER Lab Sample ID: 637482

Sample wt/vol: _____ (g/mL) ML Lab File ID: 21SEP050835-R011

Level: (low/med) LOW Date Received: 09/14/05

% Moisture: not dec. _____ Date Analyzed: 09/21/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW1SW19259

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109662

Matrix: (soil/water) WATER Lab Sample ID: 637483

Sample wt/vol: _____ (g/mL) ML Lab File ID: 21SEP050835-R021

Level: (low/med) LOW Date Received: 09/14/05

% Moisture: not dec. _____ Date Analyzed: 09/21/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW5SW19260

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109662

Matrix: (soil/water) WATER Lab Sample ID: 637484

Sample wt/vol: _____ (g/mL) ML Lab File ID: 21SEP050835-R031

Level: (low/med) LOW Date Received: 09/14/05

% Moisture: not dec. _____ Date Analyzed: 09/21/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCTBW16520

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109662

Matrix: (soil/water) WATER Lab Sample ID: 637485

Sample wt/vol: _____ (g/mL) ML Lab File ID: 21SEP050835-R041

Level: (low/med) LOW Date Received: 09/14/05

% Moisture: not dec. _____ Date Analyzed: 09/21/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

December 2, 2005

Mr. Clyde Dennis
Argonne National Laboratory
9700 S. Cass Avenue
Bldg. 20, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: MORRILL; SDG: 109677

Dear Mr. Dennis:

Enclosed are the analytical results for samples received by STL Burlington on September 15, 2005. This report is sequentially numbered starting with page 0001 and ending with page 0103. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 09/15/05 ETR No: 109677		
637560	MRMW6S-W-19263	09/14/05	Water
637560DP	MRMW6S-W-19263REP	09/14/05	Water
637560MS	MRMW6S-W-19263MS	09/14/05	Water
637561	MRMW6S-W-19263F	09/14/05	Filtrate
637561DP	MRMW6S-W-19263FREP	09/14/05	Filtrate
637561MS	MRMW6S-W-19263FMS	09/14/05	Filtrate
637562	MRMW3S-W-19261	09/13/05	Water
637563	MRMW3S-W-19261F	09/13/05	Filtrate
637564	MRQCTB-W-16523	09/14/05	Water
637565	MRMW2S-W-19264	09/14/05	Water
637566	MRMW2S-W-19264F	09/14/05	Filtrate
637567	MRMW4S-W-19262	09/14/05	Water
637568	MRMW4S-W-19262F	09/14/05	Filtrate

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. In order to accommodate field length limitations in processing the data summary forms, the laboratory did, in certain instances, abbreviate the sample identifier. The electronically formatted data provides for the full sample identifier.

Sample volumes were filtered by the laboratory through a 0.45-micron filter prior to being analyzed for alkalinity. An "F" suffix has been added to the sample identifiers to distinguish these sample volumes as being filtrates. The analytical work for each of the other parameters was performed without a specific filtration of the sample volumes, although, for the ion chromatography analysis, the instrumentation has within it a pretreatment system that does provide filtration as a function of routine operation.

Matrix spike and replicate were performed on samples MRMW6S-W-19263 and MRMW6S-W-19263F.

Analysis of the samples for metals elements, including the primary analysis of phosphorus, was performed in the context of SW846 Method 3010A/6010B. A laboratory control sample was prepared and analyzed in association with the samples, and the target elements recovered well in the analyses. The analysis of the method blank associated with the analytical work did yield results below the established reporting limits. Secondarily, results for orthophosphate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. For this parameter as well, there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit. This was reflected in the positive results that were observed from the analysis of associated method blanks and performance blanks within the analytical sequence.

The primary analysis of the samples for nitrate nitrogen was performed in the context of USEPA Method 353.2, using preserved sample volumes. Laboratory control samples were prepared and analyzed in association with the samples, and there was acceptable recovery. The analysis of the method blanks associated with the analytical work did yield results below the established reporting limit. Secondarily, results for nitrate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was a method and calibration blank in the analytical sequence 09/15/05 for nitrate nitrogen that was above the reporting limit. The concentration of sample MRMW3S-W-19261 reported from this analysis was ten times above the concentration of the method and calibration blanks. It should be also noted that there was a method blank in the analytical sequence 09/16/05 for nitrate nitrogen that was above the reporting limit. The concentration of samples MRMW6S-W-19263 and MRMW6S-W-19263DP were reported from this analysis as non detects with an elevated reporting limit.

The samples were analyzed for nitrite nitrogen by USEPA Method 354.1. A laboratory control sample was prepared and analyzed in association with the samples, and the nitrite nitrogen was recovered well in the analysis. The analysis of the method blanks associated with the analytical work did yield results below the established reporting limit.

Results for chloride and sulfate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be also noted that there was a calibration blank in the analytical sequence 09/15/05 for chloride that was above the reporting limit. Samples reported from this sequence yielded concentration greater then ten times the concentration found in this blank. In the analytical sequence 09/29/05 for sulfate, there was a continuing calibration verification standard with recoveries that was slightly above the control limit. Laboratory control samples were prepared and analyzed in association with the samples, and they recovered well in the analysis. The analysis of the method blanks associated with the analytical work did yield results below the established reporting limit.

The samples were analyzed for total organic carbon by USEPA Method 415.1. A laboratory control sample was prepared and analyzed in association with the samples, and the spiked organic carbon was recovered well in the analysis. The analysis of the method blank associated with the analytical work did yield a result below the established reporting limit.

The samples were analyzed for sulfide by USEPA Method 376.2. A laboratory control sample was prepared and analyzed in association with the samples, and there was acceptable recovery. The analysis of the method blank associated with the analytical work was free of contamination.

The samples were analyzed for alkalinity by USEPA Method 310.1. A laboratory control sample was prepared and analyzed in association with the samples, and there was acceptable recovery. The analysis of the method blank associated with the analytical work was free of contamination.

The samples were analyzed for methane, ethane, and ethene by Method RSK-175. A laboratory control sample was prepared and analyzed in association with the samples, and there was an acceptable recovery of the target analytes in that analysis. The method blank that was analyzed in association with the samples was free of contamination.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Kirk F. Young for
Project Manager

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

1094

MATRIX:	WATER
RECEIVING LAB:	Severn Trent
PROJECT/SITE:	Morrill
SAMPLER(S) (Signature)	BW Marshall

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.	Silver Maxi
Shipping Info:	8314 3497 9145
ANL Field Contact (Name & Temporary Phone):	John Taylor 630 379 5543

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: Anions, Alkalinity	Sulfide	Cations	TOC	Methane	Total N					REMARKS
14 Sep 05	MRMW65-W-19263	8	1	1	1	2	2	1					
13 SEP 05	MRMW35-W-19261	8	1	1	1	2	2	1					
14 SEP 05	MRQCTB-W-16523	8	1	1	1	2	2	1	3m	2ea			METHANE TRIP
14 SEP 05	MRMW25-W-19264	8	1	1	1	2	2	1					
14 SEP 05	MRMW45-W-19262	8	1	1	1	2	2	1					TOC & TN samples acidified pH < 2 H_2SO_4
													Sulfide pH > 9 NaOH zn acetate
													* Anion sample time sensitive due to nitrate analysis

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
BW Marshall	14 Sep 05	1300 HR	9/15/05 0931				

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your poossession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (10-92)

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW6S-W-19263

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637560

Matrix: WATER | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	O-Phosphate as P	09/15/05	BLKIC091505B	ug/L	1	200	272	
300.0	Nitrate as N	09/16/05	BLKIC091605D	ug/L	2	400	400	U
300.0	Chloride	09/16/05	BLKIC091605B	ug/L	2	400	27200	
300.0	Sulfate	09/17/05	BLKIC091705D	ug/L	500	100000	1330000	
353.2	Nitrate/Nitrite Nitrogen	09/16/05	BLKNN091605B	ug/L	1	10.0	10.0	U
354.1	Nitrite Nitrogen	09/15/05	BLKNI091505B	ug/L	1	5.0	5.0	U
376.2	Sulfide	09/20/05	BLKSL092005A	ug/L	1	20.0	44.3	
415.1	Organic Carbon, Total	09/16/05	BLKTO091605C	ug/L	1	1000	1000	U

Printed on: 12/01/05 11:51 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW6S-W-19263F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637561

Matrix: FILTRATE | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/24/05	BLKAL092405B	ug/L	1	1000	261000	
310.1	Bicarbonate Alkalinity	09/24/05	BLKAL092405C	ug/L	1	1000	261000	
310.1	Carbonate Alkalinity	09/24/05	BLKAL092405D	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/24/05	BLKAL092405E	ug/L	1	1000	1000	U

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW3S-W-19261

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637562

Matrix: WATER | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	O-Phosphate as P	09/15/05	BLKIC091505B	ug/L	1	200	374	
300.0	Nitrate as N	09/15/05	BLKIC091505C	ug/L	1	200	13500	
300.0	Chloride	09/15/05	BLKIC091505D	ug/L	1	200	3280	
300.0	Sulfate	09/16/05	BLKIC091605A	ug/L	2	400	28000	
353.2	Nitrate/Nitrite Nitrogen	09/17/05	BLKNN091705A	ug/L	20	200	14600	
354.1	Nitrite Nitrogen	09/15/05	BLKNI091505B	ug/L	1	5.0	5.0	U
376.2	Sulfide	09/20/05	BLKSL092005A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	09/16/05	BLKTO091605C	ug/L	1	1000	1000	U

Printed on: 12/01/05 11:51 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW3S-W-19261F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637563

Matrix: FILTRATE | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/24/05	BLKAL092405B	ug/L	1	1000	280000	
310.1	Bicarbonate Alkalinity	09/24/05	BLKAL092405C	ug/L	1	1000	280000	
310.1	Carbonate Alkalinity	09/24/05	BLKAL092405D	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/24/05	BLKAL092405E	ug/L	1	1000	1000	U

Printed on: 12/01/05 11:51 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW2S-W-19264

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637565

Matrix: WATER | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	O-Phosphate as P	09/15/05	BLKIC091505B	ug/L	1	200	307	
300.0	Nitrate as N	09/16/05	BLKIC091605D	ug/L	2	400	18200	
300.0	Chloride	09/15/05	BLKIC091505D	ug/L	1	200	11000	
300.0	Sulfate	09/29/05	BLKIC092905C	ug/L	5	1000	56600	
353.2	Nitrate/Nitrite Nitrogen	09/17/05	BLKNN091705A	ug/L	20	200	20400	
354.1	Nitrite Nitrogen	09/15/05	BLKNI091505B	ug/L	1	5.0	5.0	U
376.2	Sulfide	09/20/05	BLKSL092005A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	09/16/05	BLKTO091605C	ug/L	1	1000	1000	U

Printed on: 12/01/05 11:51 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW2S-W-19264F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637566

Matrix: FILTRATE | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/24/05	BLKAL092405B	ug/L	1	1000	289000	
310.1	Bicarbonate Alkalinity	09/24/05	BLKAL092405C	ug/L	1	1000	289000	
310.1	Carbonate Alkalinity	09/24/05	BLKAL092405D	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/24/05	BLKAL092405E	ug/L	1	1000	1000	U

Printed on: 12/01/05 11:51 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW4S-W-19262

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637567

Matrix: WATER | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	O-Phosphate as P	09/15/05	BLKIC091505B	ug/L	1	200	271	
300.0	Nitrate as N	09/16/05	BLKIC091605D	ug/L	2	400	20800	
300.0	Chloride	09/15/05	BLKIC091505D	ug/L	1	200	10300	
300.0	Sulfate	09/16/05	BLKIC091605A	ug/L	2	400	24600	
353.2	Nitrate/Nitrite Nitrogen	09/17/05	BLKNN091705A	ug/L	20	200	22900	
354.1	Nitrite Nitrogen	09/15/05	BLKNI091505B	ug/L	1	5.0	5.0	U
376.2	Sulfide	09/20/05	BLKSL092005A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	09/16/05	BLKTO091605C	ug/L	1	1000	1000	U

Printed on: 12/01/05 11:51 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW4S-W-19262F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109677

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 637568

Matrix: FILTRATE | Client: ARGLAB | Date Received: 09/15/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/24/05	BLKAL092405B	ug/L	1	1000	292000	
310.1	Bicarbonate Alkalinity	09/24/05	BLKAL092405C	ug/L	1	1000	292000	
310.1	Carbonate Alkalinity	09/24/05	BLKAL092405D	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/24/05	BLKAL092405E	ug/L	1	1000	1000	U

Printed on: 12/01/05 11:51 AM

SEVERN TRENT STL

Sample Data Summary Package For Metals

USEPA-CLP METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: _____ SDG No.: 109677

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MRMW2S-W-19264F	637566
MRMW3S-W-19261F	637563
MRMW4S-W-19262F	637568
MRMW6S-W-19263F	637561
MRMW6S-W-19263FD	637561DP
MRMW6S-W-19263FS	637561MS

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

USEPA-CLP METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MRMW2S-W-19264F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109677

Matrix (soil/water): FILTRATE Lab Sample ID: 637566

Level (low/med): LOW Date Received: 9/15/2005

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	65.3	U	N	P
7440-70-2	Calcium	130000			P
7439-89-6	Iron	84.3	U	*	P
7439-95-4	Magnesium	21400			P
7439-96-5	Manganese	1.9	U	N	P
7723-14-0	Phosphorous	24.2	U	N	P
7440-09-7	Potassium	902	B		P
7440-21-3	Silicon	8720			P
7440-23-5	Sodium	19200			P
7440-66-6	Zinc	7.9	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

USEPA-CLP METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW3S-W-19261F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109677

Matrix (soil/water): FILTRATE Lab Sample ID: 637563

Level (low/med): LOW Date Received: 9/15/2005

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	65.3	U	N	P
7440-70-2	Calcium	106000			P
7439-89-6	Iron	84.3	U	*	P
7439-95-4	Magnesium	15600			P
7439-96-5	Manganese	2.3	B	N	P
7723-14-0	Phosphorous	24.4	B	N	P
7440-09-7	Potassium	699	B		P
7440-21-3	Silicon	7040			P
7440-23-5	Sodium	25900			P
7440-66-6	Zinc	3.3	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA-CLP METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW4S-W-19262F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109677

Matrix (soil/water): FILTRATE Lab Sample ID: 637568

Level (low/med): LOW Date Received: 9/15/2005

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	65.3	U	N	P
7440-70-2	Calcium	92500			P
7439-89-6	Iron	84.3	U	*	P
7439-95-4	Magnesium	34100			P
7439-96-5	Manganese	3.9	B	N	P
7723-14-0	Phosphorous	24.2	U	N	P
7440-09-7	Potassium	942	B		P
7440-21-3	Silicon	8010			P
7440-23-5	Sodium	18000			P
7440-66-6	Zinc	9.4	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA-CLP METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW6S-W-19263F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109677

Matrix (soil/water): FILTRATE Lab Sample ID: 637561

Level (low/med): LOW Date Received: 9/15/2005

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	65.3	U	N	P
7440-70-2	Calcium	481000			P
7439-89-6	Iron	84.3	U	*	P
7439-95-4	Magnesium	104000			P
7439-96-5	Manganese	330		N	P
7723-14-0	Phosphorous	24.2	U	N	P
7440-09-7	Potassium	2060	B		P
7440-21-3	Silicon	10000			P
7440-23-5	Sodium	34200			P
7440-66-6	Zinc	18.3	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

SEVERN TRENT STL

RSK-175

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW2SW19264

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109677

Matrix: (soil/water) WATER Lab Sample ID: 637565

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22SEP050843-R041

Level: (low/med) LOW Date Received: 09/15/05

% Moisture: not dec. _____ Date Analyzed: 09/22/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW3SW19261

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109677

Matrix: (soil/water) WATER Lab Sample ID: 637562

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22SEP050843-R021

Level: (low/med) LOW Date Received: 09/15/05

% Moisture: not dec. _____ Date Analyzed: 09/22/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW4SW19262

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109677

Matrix: (soil/water) WATER Lab Sample ID: 637567

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22SEP050843-R051

Level: (low/med) LOW Date Received: 09/15/05

% Moisture: not dec. _____ Date Analyzed: 09/22/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW6SW19263

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109677

Matrix: (soil/water) WATER Lab Sample ID: 637560

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22SEP050843-R011

Level: (low/med) LOW Date Received: 09/15/05

% Moisture: not dec. _____ Date Analyzed: 09/22/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCTBW16523

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109677

Matrix: (soil/water) WATER Lab Sample ID: 637564

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22SEP050843-R031

Level: (low/med) LOW Date Received: 09/15/05

% Moisture: not dec. _____ Date Analyzed: 09/22/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

December 5, 2005

Mr. Clyde Dennis
Argonne National Laboratory
9700 S. Cass Avenue
Bldg. 203, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: MORRILL; SDG: 109712

Dear Mr. Dennis:

Enclosed are the analytical results for samples received by STL Burlington on September 16, 2005. This report is sequentially numbered starting with page 0001 and ending with page XXXX. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 09/16/05 ETR No: 109712		
637802	MRMW8S-W-19265	09/14/05	Water
637803	MRMW8S-W-19265F	09/14/05	Filtrate
637804	MRQCT8-W-16527	09/14/05	Water

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. In order to accommodate field length limitations in processing the data summary forms, the laboratory did, in certain instances, abbreviate the sample identifier. The electronically formatted data provides for the full sample identifier.

Sample volumes were filtered by the laboratory through a 0.45-micron filter prior to being analyzed for alkalinity. An "F" suffix has been added to the sample identifiers to distinguish these sample volumes as being filtrates. The analytical work for each of the other parameters was performed without a specific filtration of the sample volumes, although, for the ion chromatography analysis, the instrumentation has within it a pretreatment system that does provide filtration as a function of routine operation.

Analysis of the samples for metals elements, including the primary analysis of phosphorus, was performed in the context of SW846 Method 3010A/6010B. A laboratory control sample was prepared and analyzed in association with the samples, and the target elements recovered well in the analyses. The analysis of the method blank associated with the analytical work did yield results below the established reporting limits. Secondarily, results for orthophosphate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. For this parameter as well, there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit. This was reflected in the positive results that were observed from the analysis of associated method blanks and performance blanks within the analytical sequence.

The primary analysis of the samples for nitrate nitrogen was performed in the context of USEPA Method 353.2, using the sample volumes designated for total carbon analysis. A laboratory control sample was prepared and analyzed in association with the samples, and there was acceptable recovery. The analysis of the method blank associated with the analytical work did yield results below the established reporting limit. Secondarily, results for nitrate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. For this parameter as well, there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit.

The samples were analyzed for nitrite nitrogen by USEPA Method 354.1. A laboratory control sample was prepared and analyzed in association with the samples, and the nitrite nitrogen was recovered well in the analysis. The analysis of the method blanks associated with the analytical work did yield results below the established reporting limit.

Results for chloride and sulfate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. There was an observed offset in the calibration associated with the ion chromatography analysis fro chloride that did elevate results at or near the reporting limit. This was reflected in the positive results that were observed from the analysis of associated method blank within the analytical sequence. Samples reported from this sequence yielded concentration greater then ten times the concentration found in this blank. A laboratory control sample was prepared and analyzed in association with the samples, and recovered well in the analysis. The analysis of the method blank associated with the analytical work did yield results below the established reporting limit.

The samples were analyzed for total organic carbon by USEPA Method 415.1. A laboratory control sample was prepared and analyzed in association with the samples, and the spiked organic carbon was recovered well in the analysis. The analysis of the method blank associated with the analytical work did yield a result below the established reporting limit.

The samples were analyzed for sulfide by USEPA Method 376.2. A laboratory control sample was prepared and analyzed in association with the samples, and there was acceptable recovery. The analysis of the method blank associated with the analytical work was free of contamination.

The samples were analyzed for alkalinity by USEPA Method 310.1. A laboratory control sample was prepared and analyzed in association with the samples, and there was acceptable recovery. The analysis of the method blank associated with the analytical work was free of contamination.

The samples were analyzed for methane, ethane, and ethene by Method RSK-175. A laboratory control sample was prepared and analyzed in association with the samples, and there was an acceptable recovery of the target analytes in that analysis. The method blank that was analyzed in association with the samples was free of contamination.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Kirk F. Young
Project Manager

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

MATRIX: WATER

RECEIVING LAB: Severn Trent

PROJECT/SITE: Morrill

SAMPLER(S) (Signature) B W Marshall

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No. Med Reds Unit

Shipping Info: 831434979156

ANL Field Contact (Name & Temporary Phone):

Contact = Jorge Alvarado, ANL

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: CATIONS	ANIONS (ALKALINITY)	SULFIDE	TOTAL N	METHANE	TOC	REMARKS
14 SEP 05	MRMW85-W-19265	8	1	1	1	1	2	2	
14 SEP 05	MRQCTB-W-16527	2					2		Methane Trip
									Sulfide - pH > 9 NaOH + zn acetate
									TOC & TN pH < 2 H_2SO_4
									Anions time sensitive due to nitrate analysis

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
B W Marshall	15 Sep 05	1000 HR	9/16/05 0830				

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (12-94)

SEVERN TRENT STL

Sample Data Summary Package
For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW8S-W-19265

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 109712

Lab Code: STLVT | Case No.: 21005 | Lab Sample ID: 637802

Matrix: WATER | Client: ARGLAB | Date Received: 09/16/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Nitrate as N	09/16/05	BLKIC091605D	ug/L	1	200	10400	
300.0	O-Phosphate as P	09/16/05	BLKIC091605C	ug/L	1	200	328	
300.0	Chloride	09/17/05	BLKIC091705A	ug/L	50	10000	41600	
300.0	Sulfate	09/17/05	BLKIC091705D	ug/L	50	10000	139000	
353.2	Nitrate/Nitrite Nitrogen	09/22/05	BLKNN092205A	ug/L	50	500	11700	
354.1	Nitrite Nitrogen	09/16/05	BLKNI091605A	ug/L	1	5.0	5.0	U
376.2	Sulfide	09/20/05	BLKSL092005A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	09/29/05	BLKTO092905A	ug/L	1	1000	1000	U

Printed on: 12/02/05 12:30 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW8S-W-19265F

Lab Name: STL BURLINGTON
Contract: 3E-00361
SDG No.: 109712

Lab Code: STLVT
Case No.: 21005
Lab Sample ID: 637803

Matrix: FILTRATE
Client: ARGLAB
Date Received: 09/16/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Total Alkalinity	09/24/05	BLKAL092405B	ug/L	1	1000	285000	
310.1	Bicarbonate Alkalinity	09/24/05	BLKAL092405C	ug/L	1	1000	285000	
310.1	Carbonate Alkalinity	09/24/05	BLKAL092405D	ug/L	1	1000	1000	U
310.1	Hydroxide Alkalinity	09/24/05	BLKAL092405E	ug/L	1	1000	1000	U

Printed on: 12/02/05 12:30 PM

SEVERN TRENT STL

Sample Data Summary Package For Metals

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: _____ SDG No.: 109712

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MRMW8S-W-19265F	637803

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

COVER PAGE - IN

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW8S-W-19265F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: 21005 SAS No.: SDG No.: 109712

Matrix (soil/water): WATER Lab Sample ID: 637803

Level (low/med): LOW Date Received: 09/16/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1880			P
7440-70-2	Calcium	252000			P
7439-89-6	Iron	919			P
7439-95-4	Magnesium	35100			P
7439-96-5	Manganese	416			P
7723-14-0	Phosphorous	654			P
7440-09-7	Potassium	1340	B		P
7440-21-3	Silicon	9940			P
7440-23-5	Sodium	27900			P
7440-66-6	Zinc	11.4	B		P

Not filtered

Rejected

CBD 12/9/05

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

SEVERN TRENT STL

RSK-175

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW8SW19265

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109712

Matrix: (soil/water) WATER Lab Sample ID: 637802

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22SEP050943-R061

Level: (low/med) LOW Date Received: 09/16/05

% Moisture: not dec. _____ Date Analyzed: 09/22/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCT8W16527

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 109712

Matrix: (soil/water) WATER Lab Sample ID: 637804

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22SEP050943-R071

Level: (low/med) LOW Date Received: 09/16/05

% Moisture: not dec. _____ Date Analyzed: 09/22/05

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

SEVERN TRENT STL®

April 5, 2006

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

Mr. Clyde Dennis
Argonne National Laboratory
9700 South Cass Avenue
Building 203, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: MORRILL; SDG: 113239

Dear Mr. Dennis:

Enclosed are the analytical results for the samples that were received by STL Burlington on March 21st, 2006. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/21/06 ETR No: 113239		
661868	MR-MW-6S-W-19990	03/20/06	Water
661869	MR-MW-6S-W-19990F	03/20/06	Filtrate
661870	MR-MW-8S-W-19991	03/20/06	Water
661871	MR-MW-8S-W-19991F	03/20/06	Filtrate
661872	MR-QCFB-W-19998	03/20/06	Water

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. The nitrate and ortho-phosphate analyses that were performed by USEPA Method 300.0 did occur beyond the 48-hour holding time that is specified by the method. The analytical work occurred over the March 27th to April 4th timeframe.

Sample volumes were filtered by the laboratory through a 0.45-micron filter prior to being analyzed for alkalinity. An "F" suffix has been added to the sample identifiers to distinguish these sample volumes as being filtrates. The analytical work for each of the other parameters was performed without a specific filtration of the sample volumes, although, for the ion chromatography analysis, the instrumentation has within it a pretreatment system that does provide filtration as a function of routine operation.

The primary analysis of the samples for nitrate nitrogen was performed in the context of USEPA Method 353.2 for nitrate/nitrite nitrogen, using preserved sample volumes, and USEPA Method 354.1 for nitrite. Secondarily, results for nitrate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed background in the analysis of the method blanks associated with the Method 353.2 analysis. The background concentration level approximated the established reporting limit, and was significantly less than the positive concentration levels in the field samples.

The primary analysis of the samples for phosphorus was performed in the context of SW846 Methods 3010A/6010B. Secondarily, results for ortho-phosphate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit. This is reflected in the positive results in the analysis of the method blanks.

The samples were analyzed for methane, ethane, and ethene by Method RSK-175. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. A laboratory control sample was prepared and analyzed in association with the samples, and there was an acceptable recovery of the target analytes in that. The method blank that was analyzed in association with the samples was free of contamination.

The samples were additionally analyzed for sulfate and chloride by USEPA Method 300.0, for alkalinity by USEPA Method 310.1, for sulfide by USEPA Method 376.2, for total organic carbon by USEPA Method 415.1, and for trace metals by SW846 Methods 3010A/6010B.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Kirk F. Young
Project Manager

KFY/hsf
Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

4516

MATRIX: WATER	**ARGONNE NATIONAL LABORATORY**	Shipping Container No.
RECEIVING LAB: SEVERN - TRENT	**CHAIN OF CUSTODY RECORD***	Shipping Info:
PROJECT/SITE: MORRILL, KS		ANL Field Contact (Name & Temporary Phone): DARYL BIERE 402/416-7255
SAMPLER(S) (Signature) Joe C. Gomez		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: TOC	METHANE	ANIONS + ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
20 MAR 06	MR-MW-6S-W-19990	8	✓	✓	✓	✓	✓	✓	TOC preserved pH<2 H_2SO_4
20 MAR 06	MR-MW-8S-W-19991	8	✓	✓	✓	✓	✓	✓	Anions & Alkalinity - RUSH
20 MAR 06	MR-QCFB-W-19998	2		✓					Total N preserved pH<2 H_2SO_4

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe C. Gomez	20/03/06	1800					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3-21-06	0930	

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (4-01)

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Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-MW-6S-W-19990

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113239

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661868

Matrix: WATER | Client: ARGLAB | Date Received: 03/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/28/06	BLKIC032806A	ug/L	10	2000	31400	
300.0	Sulfate	03/31/06	BLKIC033106A	ug/L	200	40000	1560000	
300.0	Nitrate as N	03/27/06	BLKIC032706C	ug/L	1	200	321	
300.0	O-Phosphate as P	04/04/06	BLKIC040406A	ug/L	2	400	400	U
353.2	Nitrate/Nitrite Nitrogen	03/30/06	BLKNN033006A	ug/L	1	10.0	10.0	U
354.1	Nitrite Nitrogen	03/21/06	BLKNI032106A	ug/L	1	5.0	6.1	
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/30/06	BLKTO033006B	ug/L	1	1000	1000	U

Printed on: 04/04/06 02:16 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-MW-6S-W-19990F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113239

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661869

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	263000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	263000	

Printed on: 04/04/06 02:16 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-MW-8S-W-19991

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113239

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661870

Matrix: WATER | Client: ARGLAB | Date Received: 03/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/28/06	BLKIC032806A	ug/L	10	2000	26800	
300.0	Sulfate	03/28/06	BLKIC032806B	ug/L	100	20000	159000	
300.0	Nitrate as N	03/27/06	BLKIC032706C	ug/L	1	200	8970	
300.0	O-Phosphate as P	03/27/06	BLKIC032706D	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/28/06	BLKNN032806A	ug/L	10	100	8390	
354.1	Nitrite Nitrogen	03/21/06	BLKNI032106A	ug/L	1	5.0	10.9	
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/30/06	BLKTO033006B	ug/L	1	1000	1120	

Printed on: 04/04/06 02:16 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-MW-8S-W-19991F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113239

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661871

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	302000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	302000	

Printed on: 04/04/06 02:16 PM

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Sample Data Summary Package For Metals

USEPA - CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: _____ SDG No.: 113239

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MR-MW-6S-W-19990F	661869
MR-MW-8S-W-19991F	661871

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MR-MW-6S-W-19990F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113239

Matrix (soil/water): WATER Lab Sample ID: 661869

Level (low/med): LOW Date Received: 03/21/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	413000		E	P
7439-89-6	Iron	129	B		P
7439-95-4	Magnesium	86200		E	P
7439-96-5	Manganese	263		E	P
7723-14-0	Phosphorous	18.4	U		P
7440-09-7	Potassium	1770	B		P
7440-21-3	Silicon	9710			P
7440-23-5	Sodium	29000			P
7440-66-6	Zinc	19.6	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MR-MW-8S-W-19991F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113239

Matrix (soil/water): WATER Lab Sample ID: 661871

Level (low/med): LOW Date Received: 03/21/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	110000		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	28500		E	P
7439-96-5	Manganese	3.4	B	E	P
7723-14-0	Phosphorous	94.6	B		P
7440-09-7	Potassium	699	B		P
7440-21-3	Silicon	8220			P
7440-23-5	Sodium	24300			P
7440-66-6	Zinc	7.5	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

SEVERN TRENT STL

RSK-175

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW6SW19990

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113239

Matrix: (soil/water) WATER Lab Sample ID: 661868

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22MA061157-R011

Level: (low/med) LOW Date Received: 03/21/06

% Moisture: not dec. _____ Date Analyzed: 03/22/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW8SW19991

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113239

Matrix: (soil/water) WATER Lab Sample ID: 661870

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22MA061157-R021

Level: (low/med) LOW Date Received: 03/21/06

% Moisture: not dec. _____ Date Analyzed: 03/22/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCFBW19998

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113239

Matrix: (soil/water) WATER Lab Sample ID: 661872

Sample wt/vol: _____ (g/mL) ML Lab File ID: 22MA061157-R031

Level: (low/med) LOW Date Received: 03/21/06

% Moisture: not dec. _____ Date Analyzed: 03/22/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

SEVERN TRENT STL®

April 10, 2006

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

Mr. Clyde Dennis
Argonne National Laboratory
9700 South Cass Avenue
Building 203, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: MORRILL; SDG: 113257

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on March 22nd, 2006. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/22/06 ETR No: 113257		
661931	MRMW4SW19993	03/21/06	Water
661932	MRMW4SW19993F	03/21/06	Filtrate
661933	MRMW2SW19992	03/21/06	Water
661934	MRMW2SW19992F	03/21/06	Filtrate
661935	MRMW10SW19999	03/21/06	Water
661936	MRMW10SW19999F	03/21/06	Filtrate
661937	MRQCFBW20010	03/21/06	Water

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. The nitrate and ortho-phosphate analyses that were performed by USEPA Method 300.0 did occur beyond the 48-hour holding time that is specified by the method. The analytical work occurred over the March 29th to April 4th timeframe.

Sample volumes were filtered by the laboratory through a 0.45-micron filter prior to being analyzed for alkalinity. An "F" suffix has been added to the sample identifiers to distinguish these sample volumes as being filtrates. The analytical work for each of the other parameters was performed without a specific filtration of the sample volumes, although, for the ion chromatography analysis, the instrumentation has within it a pretreatment system that does provide filtration as a function of routine operation.

The primary analysis of the samples for nitrate nitrogen was performed in the context of USEPA Method 353.2 for nitrate/nitrite nitrogen, using preserved sample volumes, and USEPA Method 354.1 for nitrite. Secondarily, results for nitrate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed background in the analysis of one of the method blanks associated with the Method 353.2 analysis. The background concentration level approximated the established reporting limit, and was significantly less than the positive concentration level in the associated field sample.

The primary analysis of the samples for phosphorus was performed in the context of SW846 Methods 3010A/6010B. Secondarily, results for ortho-phosphate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit. This is reflected in the positive result in the analysis of the method blank.

The samples were analyzed for methane, ethane, and ethene by Method RSK-175. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. A laboratory control sample was prepared and analyzed in association with the samples, and there was an acceptable recovery of the target analytes in that. The method blank that was analyzed in association with the samples was free of contamination.

The samples were additionally analyzed for sulfate and chloride by USEPA Method 300.0, for alkalinity by USEPA Method 310.1, for sulfide by USEPA Method 376.2, for total organic carbon by USEPA Method 415.1, and for trace metals by SW846 Methods 3010A/6010B.

It should be noted that there was an observed background in the method blank associated with the USEPA Method 300.0 analysis for chloride. The background concentration level approximated the established reporting limit, and was significantly less than the positive concentration level in the associated field sample.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Kirk F. Young
Project Manager

KFY/hsf
Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

MATRIX: WATER
RECEIVING LAB: SEVERN-TRENT
PROJECT/SITE: MORRILL, KS
SAMPLER(S) (Signature) Joe C. Gomez

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): PARYL BIERE 402/416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	TOC	METHANE	ANIONS & ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
21 MAR 06	MRMW45W19993	8	✓	✓	✓	✓	✓	✓	TOC preserved pH<2 H_2SO_4
21 MAR 06	MRMW25W19992	8	✓	✓	✓	✓	✓	✓	Anions & Alkalinity - RUSH
21 MAR 06	MRMW10SW19999	8	✓	✓	✓	✓	✓	✓	Total N preserved pH<2 H_2SO_4
21 MAR 06	MRQCFBW20010	2		✓					

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe C Gomez	21/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3/22/06	1000	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (4-01)

3

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW4SW19993

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113257

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661931

Matrix: WATER | Client: ARGLAB | Date Received: 03/22/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/22/06	BLKIC032206A	ug/L	1	200	9110	
300.0	Sulfate	03/22/06	BLKIC032206B	ug/L	10	2000	18200	
300.0	Nitrate as N	04/03/06	BLKIC040306A	ug/L	2	400	16200	
300.0	O-Phosphate as P	03/22/06	BLKIC032206D	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/28/06	BLKNN032806E	ug/L	10	100	15200	
354.1	Nitrite Nitrogen	03/22/06	BLKNI032206A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	04/03/06	BLKTO040306A	ug/L	1	1000	9280	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW4SW19993F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113257

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661932

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/22/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	222000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	222000	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW2SW19992

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113257

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661933

Matrix: WATER | Client: ARGLAB | Date Received: 03/22/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/22/06	BLKIC032206A	ug/L	10	2000	23300	
300.0	Sulfate	03/22/06	BLKIC032206B	ug/L	10	2000	51000	
300.0	Nitrate as N	04/03/06	BLKIC040306A	ug/L	5	1000	25400	
300.0	O-Phosphate as P	03/22/06	BLKIC032206D	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/28/06	BLKNN032806F	ug/L	15	150	25200	
354.1	Nitrite Nitrogen	03/22/06	BLKNI032206A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	04/03/06	BLKTO040306A	ug/L	1	1000	7630	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW2SW19992F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113257

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661934

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/22/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	301000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	301000	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW10SW19999

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113257

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661935

Matrix: WATER | Client: ARGLAB | Date Received: 03/22/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/22/06	BLKIC032206A	ug/L	1	200	6070	
300.0	Sulfate	03/22/06	BLKIC032206B	ug/L	10	2000	42000	
300.0	Nitrate as N	03/29/06	BLKIC032906A	ug/L	1	200	357	
300.0	O-Phosphate as P	03/22/06	BLKIC032206D	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/28/06	BLKNN032806D	ug/L	1	10.0	162	
354.1	Nitrite Nitrogen	03/22/06	BLKNI032206A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	04/03/06	BLKTO040306A	ug/L	1	1000	4260	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW10SW19999F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113257

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 661936

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/22/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	351000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	351000	

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SEVERN TRENT STL

Sample Data Summary Package For Metals

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: _____ SDG No.: 113257

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MRMW10SW19999F	661936
MRMW2SW19992F	661934
MRMW4SW19993F	661932

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

COVER PAGE - IN

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW10SW19999F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113257

Matrix (soil/water): FILTRATE Lab Sample ID: 661936

Level (low/med): LOW Date Received: 3/22/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	86300		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	32600		E	P
7439-96-5	Manganese	64.4			P
7723-14-0	Phosphorous	20.6	B		P
7440-09-7	Potassium	2120	B		P
7440-21-3	Silicon	8900			P
7440-23-5	Sodium	28200			P
7440-66-6	Zinc	7.5	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW2SW19992F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113257

Matrix (soil/water): FILTRATE Lab Sample ID: 661934

Level (low/med): LOW Date Received: 3/22/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21.5	B		P
7440-70-2	Calcium	125000		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	31400		E	P
7439-96-5	Manganese	1.7	B		P
7723-14-0	Phosphorous	18.4	U		P
7440-09-7	Potassium	1890	B		P
7440-21-3	Silicon	8290			P
7440-23-5	Sodium	18800			P
7440-66-6	Zinc	7.5	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW4SW19993F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113257

Matrix (soil/water): FILTRATE Lab Sample ID: 661932

Level (low/med): LOW Date Received: 3/22/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	55000		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	23400		E	P
7439-96-5	Manganese	4.5	B		P
7723-14-0	Phosphorous	24.1	B		P
7440-09-7	Potassium	696	B		P
7440-21-3	Silicon	5850			P
7440-23-5	Sodium	12900			P
7440-66-6	Zinc	12.8	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

SEVERN TRENT STL

RSK-175

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW2SW19992

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113257

Matrix: (soil/water) WATER Lab Sample ID: 661933

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R101

Level: (low/med) LOW Date Received: 03/22/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW4SW19993

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113257

Matrix: (soil/water) WATER Lab Sample ID: 661931

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R091

Level: (low/med) LOW Date Received: 03/22/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCFBW20010

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113257

Matrix: (soil/water) WATER Lab Sample ID: 661937

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R121

Level: (low/med) LOW Date Received: 03/22/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

RMW10SW1999

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113257

Matrix: (soil/water) WATER Lab Sample ID: 661935

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R111

Level: (low/med) LOW Date Received: 03/22/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM I VOA

SEVERN TRENT STL®

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

April 12, 2006

Mr. Clyde Dennis
Argonne National Laboratory
9700 South Cass Avenue
Building 203, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: MORRILL; SDG: 113285

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on March 23rd, 2006. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/23/06 ETR No: 113285		
662148	MRMW9SW20004	03/22/06	Water
662149	MRMW9SW20004F	03/22/06	Filtrate
662150	MRMW7SW20000	03/22/06	Water
662151	MRMW7SW20000F	03/22/06	Filtrate
662152	MRMW11SW20001	03/22/06	Water
662153	MRMW11SW20001F	03/22/06	Filtrate
662154	MRMW5SW19996	03/22/06	Water
662155	MRMW5SW19996F	03/22/06	Filtrate
662156	MRQCTBW20009	03/22/06	Water
662157	MRQCDUW20005	03/22/06	Water
662158	MRQCDUW20005F	03/22/06	Filtrate
662159	MRMW1SW20008	03/22/06	Water
662159DP	MRMW1SW20008REP	03/22/06	Water
662159MD	MRMW1SW20008MSD	03/22/06	Water
662160	MRMW1SW20008F	03/22/06	Filtrate
662160DP	MRMW1SW20008FREP	03/22/06	Filtrate
662160MS	MRMW1SW20008FMS	03/22/06	Filtrate
662161	MRQCTBW20012	03/22/06	Water

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. The nitrate analyses that were performed by USEPA Method 300.0 did occur

beyond the 48-hour holding time that is specified by the method. The analytical work occurred over the March 27th to April 3rd timeframe.

Sample volumes were filtered by the laboratory through a 0.45-micron filter prior to being analyzed for alkalinity. An "F" suffix has been added to the sample identifiers to distinguish these sample volumes as being filtrates. The analytical work for each of the other parameters was performed without a specific filtration of the sample volumes, although, for the ion chromatography analysis, the instrumentation has within it a pretreatment system that does provide filtration as a function of routine operation.

The primary analysis of the samples for nitrate nitrogen was performed in the context of USEPA Method 353.2 for nitrate/nitrite nitrogen, using preserved sample volumes, and USEPA Method 354.1 for nitrite. Secondarily, results for nitrate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed background in the analysis of two of the method blanks associated with the Method 353.2 analysis. The background concentration level approximated the established reporting limit, and was significantly less than the positive concentration level in the associated field samples.

The primary analysis of the samples for phosphorus was performed in the context of SW846 Methods 3010A/6010B. Secondarily, results for ortho-phosphate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit. This is reflected in the positive result in the analysis of the method blank.

The samples were analyzed for methane, ethane, and ethene by Method RSK-175. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. A laboratory control sample was prepared and analyzed in association with the samples, and there was an acceptable recovery of the target analytes in that. The method blank that was analyzed in association with the samples was free of contamination.

The samples were additionally analyzed for sulfate and chloride by USEPA Method 300.0, for alkalinity by USEPA Method 310.1, for sulfide by USEPA Method 376.2, for total organic carbon by USEPA Method 415.1, and for trace metals by SW846 Methods 3010A/6010B.

It should be noted that a matrix spike analysis was performed on sample MRMW1SW20008 for each of the inorganic parameters. There was no recovery of the spiked analyte the Method 353.2 analysis for the nitrate/nitrite or in the Method 376.2 analysis for sulfide. In the case of nitrate/nitrite, the constituent concentration was significantly higher than the spike amount. The recovery of the spiked analyte was relatively low in the Method 300.3 analysis for nitrate (60 percent) and ortho-phosphate (58 percent), as it was in the Method 415.1 analysis for total organic carbon (37 percent). Additionally, there was an observed background in one of the method blanks associated with the USEPA Method 300.0 analysis for chloride. The background concentration level approximated the established reporting limit, and was significantly less than the positive concentration level in the associated field samples.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the

Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Kirk F. Young
Project Manager

KFY/hsf
Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

*: Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

4212

MATRIX: WATER

RECEIVING LAB: SEVERN - TRENT

PROJECT/SITE: MORRILL, KS

SAMPLER(S) (Signature) J. C. Combs

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.

Shipping Info:

ANL Field Contact (Name & Temporary Phone): DARYL BIERE 402/416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: TOC	METHANE	ANIONS - ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
22 MAR 06	MRMW9SW20004	8	✓	✓	✓	✓	✓	✓	Toc preserved pH<2 H_2SO_4
22 MAR 06	MRMW7SW20000	8	✓	✓	✓	✓	✓	✓	Anions & Alkalinity - RUSH
22 MAR 06	MRMW11SW20001	8	✓	✓	✓	✓	✓	✓	Total N preserved pH<2 H_2SO_4
22 MAR 06	MRMW5SW19996	8	✓	✓	✓	✓	✓	✓	
22 MAR 06	MRQCTBW20009	2		✓					

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
J. C. Combs	22/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				323-06	0945	

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (4-01)

3772

MATRIX: WATER	ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD*	Shipping Container No.
RECEIVING LAB: SEVERN - TRENT		Shipping Info:
PROJECT/SITE: MORRILL, KS		ANL Field Contact (Name & Temporary Phone): DARYL BYERS 402/416-7255
SAMPLER(S) (Signature) Joe C. Gomez		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: TOC	METHANE	ALKALINITY	CATIONS	TOTAL N	SULFIDE	REMARKS
22 MAR 06	MRQCDUW20005	8	✓	✓	✓	✓	✓	✓	
22 MAR 06	MRMW1SW20008	8	✓	✓	✓	✓	✓	✓	
22 MAR 06	MRQCTBW20012	2	·	✓					

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe C. Gomez	22/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
				3-23-06	0945	

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (4-01)

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW9SW20004

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662148

Matrix: WATER | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/24/06	BLKIC032406G	ug/L	1	200	5970	
300.0	Sulfate	04/03/06	BLKIC040306C	ug/L	10	2000	57100	
300.0	Nitrate as N	03/24/06	BLKIC032406J	ug/L	1	200	349	
300.0	O-Phosphate as P	03/24/06	BLKIC032406H	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	04/05/06	BLKNN040506A	ug/L	1	10.0	42.7	
354.1	Nitrite Nitrogen	03/23/06	BLKNI032306A	ug/L	1	5.0	6.6	
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/31/06	BLKTO033106B	ug/L	1	1000	1600	

Printed on: 04/07/06 03:00 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW9SW20004F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662149

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	350000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	350000	

Printed on: 04/07/06 03:00 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW7SW20000

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662150

Matrix: WATER | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/24/06	BLKIC032406G	ug/L	1	200	9760	
300.0	Sulfate	04/03/06	BLKIC040306C	ug/L	5	1000	25800	
300.0	Nitrate as N	04/03/06	BLKIC040306A	ug/L	5	1000	19800	
300.0	O-Phosphate as P	03/24/06	BLKIC032406H	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/29/06	BLKNN032906A	ug/L	10	100	18400	
354.1	Nitrite Nitrogen	03/23/06	BLKNI032306A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/31/06	BLKTO033106B	ug/L	1	1000	2000	

Printed on: 04/07/06 03:00 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW7SW20000F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662151

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	304000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	304000	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW11SW20001

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662152

Matrix: WATER | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/24/06	BLKIC032406G	ug/L	1	200	8220	
300.0	Sulfate	04/03/06	BLKIC040306C	ug/L	5	1000	25200	
300.0	Nitrate as N	04/03/06	BLKIC040306A	ug/L	5	1000	21800	
300.0	O-Phosphate as P	03/24/06	BLKIC032406H	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/30/06	BLKNN033006B	ug/L	20	200	20300	
354.1	Nitrite Nitrogen	03/23/06	BLKNI032306A	ug/L	1	5.0	5.2	
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/31/06	BLKTO033106B	ug/L	1	1000	2190	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW11SW20001F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662153

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	316000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	316000	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW5SW19996

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662154

Matrix: WATER | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/24/06	BLKIC032406G	ug/L	1	200	13100	
300.0	Sulfate	04/03/06	BLKIC040306C	ug/L	5	1000	48500	
300.0	Nitrate as N	04/03/06	BLKIC040306A	ug/L	5	1000	22000	
300.0	O-Phosphate as P	03/24/06	BLKIC032406H	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/30/06	BLKNN033006B	ug/L	20	200	20100	
354.1	Nitrite Nitrogen	03/23/06	BLKNI032306A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/31/06	BLKTO033106B	ug/L	1	1000	2380	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW5SW19996F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662155

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	297000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	297000	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRQCDUW20005

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662157

Matrix: WATER | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/24/06	BLKIC032406G	ug/L	1	200	8310	
300.0	Sulfate	04/03/06	BLKIC040306C	ug/L	5	1000	25200	
300.0	Nitrate as N	04/03/06	BLKIC040306A	ug/L	5	1000	21600	
300.0	O-Phosphate as P	03/24/06	BLKIC032406H	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/30/06	BLKNN033006B	ug/L	20	200	20400	
354.1	Nitrite Nitrogen	03/23/06	BLKNI032306A	ug/L	1	5.0	6.1	
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/31/06	BLKTO033106B	ug/L	1	1000	1880	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRQCDUW20005F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662158

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	316000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	316000	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW1SW20008

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662159

Matrix: WATER | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	04/03/06	BLKIC040306B	ug/L	10	2000	87000	
300.0	Sulfate	04/03/06	BLKIC040306C	ug/L	10	2000	39300	
300.0	Nitrate as N	04/03/06	BLKIC040306A	ug/L	2	400	15200	
300.0	O-Phosphate as P	03/24/06	BLKIC032406H	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/29/06	BLKNN032906A	ug/L	10	100	14200	
354.1	Nitrite Nitrogen	03/23/06	BLKNI032306A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	03/31/06	BLKTO033106B	ug/L	1	1000	1680	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MRMW1SW20008F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113285

Lab Code: STLVT | Case No.: MORRILL | Lab Sample ID: 662160

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/23/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	311000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	311000	

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Sample Data Summary Package For Metals

USEPA - CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

SOW No.:

EPA Sample No.	Lab Sample ID.
MRMW11SW20001F	662153
MRMW1SW20008F	662160
MRMW1SW20008FD	662160DP
MRMW1SW20008FS	662160MS
MRMW5SW19996F	662155
MRMW7SW20000F	662151
MRMW9SW20004F	662149
MRQCDUW20005F	662158

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

USEPA - CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MRMW11SW20001F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix (soil/water): WATER Lab Sample ID: 662153

Level (low/med): LOW Date Received: 03/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	90500		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	30500		E	P
7439-96-5	Manganese	5.7	B		P
7723-14-0	Phosphorous	18.4	U		P
7440-09-7	Potassium	521	U		P
7440-21-3	Silicon	7480			P
7440-23-5	Sodium	22600			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW1SW20008F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix (soil/water): WATER Lab Sample ID: 662160

Level (low/med): LOW Date Received: 03/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	120000		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	27800		E	P
7439-96-5	Manganese	0.80	U		P
7723-14-0	Phosphorous	18.4	U		P
7440-09-7	Potassium	606	B		P
7440-21-3	Silicon	7450			P
7440-23-5	Sodium	37300			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW5SW19996F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix (soil/water): WATER Lab Sample ID: 662155

Level (low/med): LOW Date Received: 03/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	99100		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	28400		E	P
7439-96-5	Manganese	0.80	U		P
7723-14-0	Phosphorous	18.4	U		P
7440-09-7	Potassium	521	U		P
7440-21-3	Silicon	7910			P
7440-23-5	Sodium	16300			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW7SW20000F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix (soil/water): WATER Lab Sample ID: 662151

Level (low/med): LOW Date Received: 03/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	96900		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	20400		E	P
7439-96-5	Manganese	0.80	U		P
7723-14-0	Phosphorous	25.6	B		P
7440-09-7	Potassium	521	U		P
7440-21-3	Silicon	7260			P
7440-23-5	Sodium	20600			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRMW9SW20004F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix (soil/water): WATER Lab Sample ID: 662149

Level (low/med): LOW Date Received: 03/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19.7	B		P
7440-70-2	Calcium	76900		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	33700		E	P
7439-96-5	Manganese	70.1			P
7723-14-0	Phosphorous	18.4	U		P
7440-09-7	Potassium	521	U		P
7440-21-3	Silicon	8710			P
7440-23-5	Sodium	23600			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRQCDUW20005F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix (soil/water): WATER Lab Sample ID: 662158

Level (low/med): LOW Date Received: 03/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16.5	U		P
7440-70-2	Calcium	96400		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	32400		E	P
7439-96-5	Manganese	6.5	B		P
7723-14-0	Phosphorous	19.9	B		P
7440-09-7	Potassium	879	B		P
7440-21-3	Silicon	7450			P
7440-23-5	Sodium	24000			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

SEVERN TRENT STL

RSK-175

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW1SW20008

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662159

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R191

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW5SW19996

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662154

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R161

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW7SW20000

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662150

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R141

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW9SW20004

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662148

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R131

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCDUW20005

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662157

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R181

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCTBW20009

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662156

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R171

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCTBW20012

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662161

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R201

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

RMW11SW20001

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MORRILL SAS No.: SDG No.: 113285

Matrix: (soil/water) WATER Lab Sample ID: 662152

Sample wt/vol: _____ (g/mL) ML Lab File ID: 27MA060933-R151

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

SEVERN TRENT STL®

April 10, 2006

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

Mr. Clyde Dennis
Argonne National Laboratory
9700 South Cass Avenue
Building 203, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: MURDOCK; SDG: 113321

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on March 24th, 2006. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/24/06 ETR No: 113321		
662361	MR-QCDU-W-20016	03/23/06	Water
662362	MR-QCDU-W-20016F	03/23/06	Filtrate
662363	MR-MW3S-W-19994	03/23/06	Water
662364	MR-MW3S-W-19994F	03/23/06	Filtrate
662365	MR-QCTB-W-20017	03/23/06	Water

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

Sample volumes were filtered by the laboratory through a 0.45-micron filter prior to being analyzed for alkalinity. An "F" suffix has been added to the sample identifiers to distinguish these sample volumes as being filtrates. The analytical work for each of the other parameters was performed without a specific filtration of the sample volumes, although, for the ion chromatography analysis, the instrumentation has within it a pretreatment system that does provide filtration as a function of routine operation.

The primary analysis of the samples for nitrate nitrogen was performed in the context of USEPA Method 353.2 for nitrate/nitrite nitrogen, using preserved sample volumes, and USEPA Method 354.1 for nitrite. Secondarily, results for nitrate are reported from the analysis of the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed background in the analysis of the method blank associated with the Method 353.2 analysis. The background concentration level approximated the established reporting limit, and was significantly less than the positive concentration levels in the field samples.

The primary analysis of the samples for phosphorus was performed in the context of SW846 Methods 3010A/6010B. Secondarily, results for ortho-phosphate are reported from the analysis of

the samples by USEPA Method 300.0, using ion chromatography. It should be noted that there was an observed offset in the calibration associated with the ion chromatography analysis that did elevate results at or near the reporting limit. This is reflected in the positive result in the analysis of the method blank.

The samples were analyzed for methane, ethane, and ethene by Method RSK-175. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. A laboratory control sample was prepared and analyzed in association with the samples, and there was an acceptable recovery of the target analytes in that. The method blank that was analyzed in association with the samples was free of contamination.

The samples were additionally analyzed for sulfate and chloride by USEPA Method 300.0, for alkalinity by USEPA Method 310.1, for sulfide by USEPA Method 376.2, for total organic carbon by USEPA Method 415.1, and for trace metals by SW846 Methods 3010A/6010B.

It should be noted that a matrix spike analysis was performed on sample MR-MW3S-W-19994 for ortho-phosphate by USEPA Method 300.0. The recovery of the spiked analyte in that analysis was 74 percent.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Kirk F. Young
Project Manager

KFY/hsf
Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

MATRIX: Water
RECEIVING LAB: Severn Trent Lab
PROJECT/SITE: Murdock NE-
SAMPLER(S) (Signature): Daryl Bile

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): Daryl Bile 402-416-7255

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: TOC	Methane	anions; Alkalinity	Cations	Total N	Sulfide	REMARKS
March 23-2006	MR-QCDU-W-20016	8	✓	✓	✓	✓	✓	✓	Toc preserved pH<2 H_2SO_4
March 23-2006	MR-MW35-W-19994	8	✓	✓	✓	✓	✓	✓	anions + Alkalinity ~ RUSH
March 23-2006	MR-QCTB-W-20017	2		✓					Total N preserved pH_2SO_4

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Daryl Bile	March 23-2006	1912					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			[illegible]	3/24/06	0920	

Y	N	FOR LAB USE ONLY
		Custody seal was intact when shipment received.
		Sample containers were intact when received.
		Shipment was at required temperature when received.
		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (4-01)

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-QCDU-W-20016

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113321

Lab Code: STLVT | Case No.: MURDOCK | Lab Sample ID: 662361

Matrix: WATER | Client: ARGLAB | Date Received: 03/24/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/24/06	BLKIC032406C	ug/L	1	200	3870	
300.0	Sulfate	03/24/06	BLKIC032406D	ug/L	10	2000	22700	
300.0	Nitrate as N	03/24/06	BLKIC032406E	ug/L	10	2000	15400	
300.0	O-Phosphate as P	03/24/06	BLKIC032406F	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/29/06	BLKNN032906A	ug/L	10	100	13800	
354.1	Nitrite Nitrogen	03/24/06	BLKNI032406A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	04/03/06	BLKTO040306A	ug/L	1	1000	1510	

Printed on: 04/05/06 11:29 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-QCDU-W-20016F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113321

Lab Code: STLVT | Case No.: MURDOCK | Lab Sample ID: 662362

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/24/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	286000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	286000	

Printed on: 04/05/06 11:29 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-MW3S-W-19994

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113321

Lab Code: STLVT | Case No.: MURDOCK | Lab Sample ID: 662363

Matrix: WATER | Client: ARGLAB | Date Received: 03/24/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
300.0	Chloride	03/24/06	BLKIC032406C	ug/L	1	200	3850	
300.0	Sulfate	03/24/06	BLKIC032406D	ug/L	10	2000	22800	
300.0	Nitrate as N	03/24/06	BLKIC032406E	ug/L	10	2000	15200	
300.0	O-Phosphate as P	03/24/06	BLKIC032406F	ug/L	1	200	200	U
353.2	Nitrate/Nitrite Nitrogen	03/29/06	BLKNN032906A	ug/L	10	100	13400	
354.1	Nitrite Nitrogen	03/24/06	BLKNI032406A	ug/L	1	5.0	5.0	U
376.2	Sulfide	03/27/06	BLKSU032706A	ug/L	1	20.0	20.0	U
415.1	Organic Carbon, Total	04/03/06	BLKTO040306A	ug/L	1	1000	1950	

Printed on: 04/05/06 11:29 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MR-MW3S-W-19994F

Lab Name: STL BURLINGTON | Contract: 3E-00361 | SDG No.: 113321

Lab Code: STLVT | Case No.: MURDOCK | Lab Sample ID: 662364

Matrix: FILTRATE | Client: ARGLAB | Date Received: 03/24/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
310.1	Hydroxide Alkalinity	03/28/06	BLKAL032806D	ug/L	1	1000	1000	U
310.1	Carbonate Alkalinity	03/28/06	BLKAL032806C	ug/L	1	1000	1000	U
310.1	Bicarbonate Alkalinity	03/28/06	BLKAL032806B	ug/L	1	1000	287000	
310.1	Total Alkalinity	03/28/06	BLKAL032806A	ug/L	1	1000	287000	

Printed on: 04/05/06 11:29 AM

SEVERN TRENT STL

Sample Data Summary Package For Metals

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MURDOCK SAS No.: _____ SDG No.: 113321

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MR-MW3S-W-19994F	662364
MR-QCDU-W-20016F	662362

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

COVER PAGE - IN

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MR-MW3S-W-19994F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MURDOCK SAS No.: SDG No.: 113321

Matrix (soil/water): FILTRATE Lab Sample ID: 662364

Level (low/med): LOW Date Received: 3/24/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	46.4	U		P
7440-70-2	Calcium	90500		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	15500		E	P
7439-96-5	Manganese	0.80	U		P
7723-14-0	Phosphorous	18.4	U		P
7440-09-7	Potassium	475	B		P
7440-21-3	Silicon	7270			P
7440-23-5	Sodium	20100			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

USEPA-CLP FORMS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MR-QCDU-W-20016F

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MURDOCK SAS No.: SDG No.: 113321

Matrix (soil/water): FILTRATE Lab Sample ID: 662362

Level (low/med): LOW Date Received: 3/24/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	46.4	U		P
7440-70-2	Calcium	91800		E	P
7439-89-6	Iron	54.3	U		P
7439-95-4	Magnesium	15800		E	P
7439-96-5	Manganese	0.80	U		P
7723-14-0	Phosphorous	18.4	B		P
7440-09-7	Potassium	756	B		P
7440-21-3	Silicon	7310			P
7440-23-5	Sodium	20400			P
7440-66-6	Zinc	16.0	U		P

Color Before: colorless Clarity Before: clear Texture:

Color After: colorless Clarity After: clear Artifacts:

Comments:

Form I - IN

SEVERN TRENT STL

RSK-175

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRMW3SW19994

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MURDOCK SAS No.: SDG No.: 113321

Matrix: (soil/water) WATER Lab Sample ID: 662363

Sample wt/vol: _____ (g/mL) ML Lab File ID: 29MA060948-R061

Level: (low/med) LOW Date Received: 03/24/06

% Moisture: not dec. _____ Date Analyzed: 03/29/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCDUW20016

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MURDOCK SAS No.: SDG No.: 113321

Matrix: (soil/water) WATER Lab Sample ID: 662361

Sample wt/vol: _____ (g/mL) ML Lab File ID: 29MA060948-R051

Level: (low/med) LOW Date Received: 03/24/06

% Moisture: not dec. _____ Date Analyzed: 03/29/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

MRQCTBW20017

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: MURDOCK SAS No.: SDG No.: 113321

Matrix: (soil/water) WATER Lab Sample ID: 662365

Sample wt/vol: _____ (g/mL) ML Lab File ID: 29MA060948-R071

Level: (low/med) LOW Date Received: 03/24/06

% Moisture: not dec. _____ Date Analyzed: 03/29/06

GC Column: RTUPLOT ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2.0	U
74-84-0	Ethane	4.0	U
74-85-1	Ethene	3.0	U

ENVIROSYSTEMS, INC.

9200 Rumsey Road • Suite B102 • Columbia, Maryland 21045-1934
Phone (410) 964-0330 • Fax (410) 740-9306
Email: info@envsystems.com • Webpage: www.envsystems.com/envsys

May 19, 2006

Jorge S. Alvarado, Ph.D
Argonne National Laboratory
Environmental Research Division
Applied Geoscience and Environmental
Management Section
9700 South Cass Avenue, ER-203
Argonne, Illinois 60439

RE: ENVSY Report 0605045

Dear Jorge:

Enclosed are the results of analysis for the samples received for volatile organics analysis by US EPA CLP SOW OLM04.3with a lower reporting limit of 5ug/L.

Please do not hesitate to call me if you have any questions, comments, or require additional information.

Sincerely,

Mohan Khare, Ph.D
President/CEO

MK/pl

1. Narrative

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CLIENT: Argonne National Laboratory

DATE SAMPLES RECEIVED AT LABORATORY: 15 - 24 March 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

Centralia

Morrill

Everest

Client#	Lab ID #	Analysis	Matrix
CNQCMW07-W-19888	0060315-01	VOA	WATER
CNCQCTB-W-19894	0060315-02	VOA	WATER
CNQCSB07R-W-19982	0060320-01	VOA	WATER
CNQCTB-W-19984	0060320-02	VOA	WATER
CNQCMW09-W-19977	0060320-03	VOA	WATER
MRQCMW-11S-W-2006	0060328-01	VOA	WATER
MRQCFB-W-2007	0060328-02	VOA	WATER
MRMW3SW19994	0060329-01	VOA	WATER
EVMW4W20117	0060329-02	VOA	WATER
EVQCTBW26120	0060329-03	VOA	WATER
EVPT1W20125	0060330-01	VOA	WATER
EVQCTBW20126	0060330-02	VOA	WATER

Matrix spike/matrix spike duplicate analysis was performed on sample EVMW4-W-20117.

Samples for this SDG are analyzed by EPA SOW OLM04.3 for multi-media multi-concentration organics. Sample detection limits have been modified to meet client requirements.

The cooler temperature was measured to be 2-4 degrees C.

The volatile analysis was performed on a Agilent 5975 GC/MS using a Restek RTX-624 20 meter column with an inner diameter of 0.18 mm and a 1 micron film thickness. The trap used with the autosampler is a 30 cm EST K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

The surrogate's recoveries were within the QC limits for all samples and QC samples except for one.

The MS/MSD recoveries were within acceptable range for all compounds.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS/HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

DATE: 5/19/06

Dr. Mohan Khare
president/CEO

19 MAY 2006

01A

2. SDG Cover Sheet / Traffic Report

4510

MATRIX: WATER	ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD*	Shipping Container No.
RECEIVING LAB: Enviro Systems		Shipping Info:
PROJECT/SITE: Centralia		ANL Field Contact (Name & Temporary Phone): Barney Nuckolls 630-252-7698
SAMPLER(S) (Signature) BW Nuckolls		Contact = JORGE ALVARADO at ANL

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
14 MAR 06	CNQCMW07-W-19888	2	V	
14 MAR 06	CNQCTB-W-19894	2	V	

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
BW Nuckolls	14 MAR 06	1700 HR	Paul Lentz 3/15/05		3/15/05	10:30	Paul Lentz
Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks	
			Paul Lentz	3/15/05	10:30	Cooler Temp 4°C	

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
✓		Sample containers were intact when received.
✓		Shipment was at required temperature when received. 4°C
✓		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-460 (4-01)

MATRIX: WATER
RECEIVING LAB: ENVIRO SYSTEMS
PROJECT/SITE: CENTRALIA
SAMPLER(S) (Signature) BWMarshold

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No. 950914816353
Shipping Info:
ANL Field Contact (Name & Temporary Phone): BARNEY NASHOLD 630 252 7685
Contact= Jorge Alvarado ANL

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
~~15 MAR 06~~				
~~15 MAR 06~~	~~CNQCMW09-W-19985~~	~~2~~	~~V~~ BM 15 MAR 06	
15 MAR 06	CNQCSB07A-W-19982	2	V	
15 MAR 06	CNQCTB-W-19984	2	V	
15 MAR 06	CNQCMW09-W-19977	2	V	

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
BWMarshold	15 MAR 06	1800 HR					
Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks	
	16 Mar 06	10:00 a.m.					

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
✓		Sample containers were intact when received.
✓		Shipment was at required temperature when received.
✓		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (12-94)

3°C cooler

3770

MATRIX: Water	**ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD***	Shipping Container No.
RECEIVING LAB: Enviorsystems Inc		Shipping Info:
PROJECT/SITE: Morrill KS.		ANL Field Contact (Name & Temporary Phone): Daryl Biere (402) 416-7255
SAMPLER(S) (Signature) Daryl Biere		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
march 22-2006	MR QC mw-11S-W-20006	2	✓	2-40mL - mw 11S
march 22-2006	MR QC FB-W-20007	2	✓	2-40mL Distilled water

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Daryl Biere	march 22-2006	1506					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
	3/23/06	9 45	Barbara Crook			

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
✓		Sample containers were intact when received.
✓		Shipment was at required temperature when received.
✓		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

Temp 2 °C cooler

3773

MATRIX: WATER
RECEIVING LAB: ENVIROSYSTEMS, INC
PROJECT/SITE: EVEREST, KS / Morrill
SAMPLER(S) (Signature) Joe Combs

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone):

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
23 MAR 06	MRMW3SW19994	2	✓	Morrill
23 MAR 06	EVMW4W20117	2	✓	Everest
23 MAR 06	EVQCTBW26120	2	✓	TRIP BLANK

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe Combs	23/03/06	1930					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Barbara Crook	3/24/06	10 45	Cooler Temp 2°C

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
✓		Sample containers were intact when received.
✓		Shipment was at required temperature when received.
✓		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

3782

MATRIX: WATER	**ARGONNE NATIONAL LABORATORY CHAIN OF CUSTODY RECORD***	Shipping Container No.
RECEIVING LAB: ENVIROSYSTEMS, INC		Shipping Info:
PROJECT/SITE: EVEREST, KS		ANL Field Contact (Name & Temporary Phone):
SAMPLER(S) (Signature) Joe Gomez		

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS: VOC	REMARKS
24 MAR 06	EVPT1W20125	2	✓	
24 MAR 06	EVQCTBW20126	2	✓	

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Joe Gomez	24/3/06	1730					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Barbara Crook	3/25/06	11 00	Temp 2°C

Y	N	FOR LAB USE ONLY
✓		Custody seal was intact when shipment received.
✓		Sample containers were intact when received.
✓		Shipment was at required temperature when received.
✓		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

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ER-160 (4-01)

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRQCMW-1
1S-W-2006

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032801

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032801

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	2.5	JB
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	1.6	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	30	
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

00071

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRQCMW-1
1S-W-2006

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032801

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032801

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

00072

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRQCMW-1
1S-W-2006

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032801

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032801

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRQCFB-W-2007

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032802

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032802

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	4.9	JB
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	1.7	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRQCFB-W-2007

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032802

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032802

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

1F

EPA SAMPLE NO.

MRQCFB-W-2007

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032802

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032802

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRMW3S-W-19994

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032901

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032901

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	2.1	JB
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	1.6	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	2.1	J
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	62	
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

00090

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRMW3S-W-19994

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032901

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032901

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

1F

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MRMW3S-W-19994

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032901

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032901

Level: (low/med) LOW Date Received: 03/23/06

% Moisture: not dec. _____ Date Analyzed: 03/26/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EVQCTB-W-26120

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032903

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032903

Level: (low/med) LOW Date Received: 03/24/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.4	B
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	1.8	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	2.7	J
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EVQCTB-W-26120

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032903

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032903

Level: (low/med) LOW Date Received: 03/24/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

1F

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EVQCTB-W-26120

Lab Name: ENVIROSYSTEMS, INC. Contract:

Lab Code: ENVSYS Case No.: SAS No.: SDG No.: AR0329

Matrix: (soil/water) WATER Lab Sample ID: 06032903

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 032903

Level: (low/med) LOW Date Received: 03/24/06

% Moisture: not dec. _____ Date Analyzed: 03/27/06

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

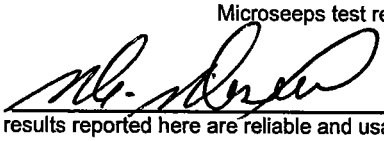
Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Laboratory Results

Total pages in data package: 9

Lab Sample #	Client Sample ID
P0509252-01	MRMW07S-A-19258
P0509252-02	MRMW1S-A-19259
P0509252-03	MRMW5S-A-19260
P0509252-04	MRMW3S-A-19261
P0509252-05	MRMW4S-A-19262
P0509252-06	MRMW2S-A-19264
P0509252-07	TRIP BLANK

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: 

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MRMW07S-A-19258	Vapor	P0509252-01	12 Sep. 05 17:05	16 Sep. 05 13:00

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Hydrogen	7.200	1.000	nM	AM20GAX	9/21/05	bc

N - NELAC certified analysis

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MRMW1S-A-19259	Vapor	P0509252-02	13 Sep. 05 9:30	16 Sep. 05 13:00

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Hydrogen	2.700	1.000	nM	AM20GAX	9/21/05	bc

N - NELAC certified analysis

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MRMW5S-A-19260	Vapor	P0509252-03	13 Sep. 05 11:45	16 Sep. 05 13:00

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Hydrogen	31.000	1.000	nM	AM20GAX	9/21/05	bc

N - NELAC certified analysis

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MRMW3S-A-19261	Vapor	P0509252-04	13 Sep. 05 16:10	16 Sep. 05 13:00

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Hydrogen	2.800	1.000	nM	AM20GAX	9/21/05	bc

N - NELAC certified analysis

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MRMW4S-A-19262	Vapor	P0509252-05	13 Sep. 05 17:45	16 Sep. 05 13:00

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Hydrogen	8.500	1.000	nM	AM20GAX	9/21/05	bc

N - NELAC certified analysis

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MRMW2S-A-19264	Vapor	P0509252-06	14 Sep. 05 10:20	16 Sep. 05 13:00

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Hydrogen	2.400	1.000	nM	AM20GAX	9/21/05	bc

N - NELAC certified analysis

Client Name: Argonne National Laboratory
Contact: Jorge Al Varado
Address: 9700 Cass Street
Bldg. 201, OCF-PRO
Argonne, IL 60439

Lab Proj #: P0509252
Report Date: 09/23/05
Client Proj Name: Morrill
Client Proj #: Morrill

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
TRIP BLANK	Vapor	P0509252-07	14 Sep. 05	16 Sep. 05 13:00

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Hydrogen	<1.000	1.000	nM	AM20GAX	9/21/05	bc

N - NELAC certified analysis

PO50925 1548 B

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 — **Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238** — Fax No. : (412) 826-3433

Company : Argonne National Lab
Co. Address : 9700 S. Cass Ave
Proj. Manager: Lorraine LaFreniere
Proj. Location: Morrill
Proj. Number: Contact Jorge Alvarado 6302525767
Phone # : _____ **Fax # :** _____

Sampler's signature : _____

Results to : Jorge Alvarado (6302525767)
Invoice to : per contract

Cooler ID	Cooler Temp.
	ambient

2005

	Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Parameters Requested: Dissolved Hydrogen	Remarks
01	vial	MRMW07SA-19258	12 SEP	1705				✓	
02		MRMW15-A-19259	13 SEP	0930				✓	
03		MRMW55-A-19260	13 SEP	1145				✓	
04		MRMW35-A-19261	13 SEP	1610				✓	
05		MRMW45-A-19262	13 SEP	1745				✓	
06	vial	MRMW25-A-19264	14 SEP	1020				✓	
07	vial	TRIP BLANK	—	—				✓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
BW Marhold	ANL	15 SEP 05	1100 HR			9/16/05	1038
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples — YELLOW COPY : Laboratory File — PINK COPY : Submitter

Supplement 5:

Waste Characterization Data and Disposal Authorization

K A N S A S

RODERICK L. BREMBY, SECRETARY

KATHLEEN SEBELIUS, GOVERNOR

DEPARTMENT OF HEALTH AND ENVIRONMENT

June 8, 2006

Ms. Lisa Larsen
Larsen & Associates, Inc.
PO Box 1447
Lawrence, KS. 66044

RE: Special Waste Disposal Authorization Number 06-0581

THIS AUTHORIZATION EXPIRES December 8, 2006.

Dear Ms. Larsen :

We have considered your request for disposal of sixteen (16) drums of soil cuttings from monitoring well installation at USDA, Everest, KS. (Analysis provided)

Based solely on the analysis provided, the waste is not a characteristic hazardous waste with respect to the constituents tested. As stated in K.A.R.28-31-4(b), it is the responsibility of the generator to determine whether or not a waste is a hazardous waste by either knowledge of process or by proper testing by a KDHE certified lab. If there are questions as to the status of this waste, the department suggests the facility contact the Kansas Department of Health and Environment at telephone 785-842-4600. **If Larsen & Associates, Inc. is confident the material for disposal is not a hazardous waste for any characteristic or listed constituent not included in the testing, the following applies.**

Approval is given to dispose of this waste at the Rolling Meadows landfill, operating under Kansas Permit 0342, provided the following conditions are met:

1. Approval to deliver the waste must be obtained from the landfill operator prior to transporting the waste to the landfill. The final decision on whether to accept or reject the waste rests with the landfill operator. Please contact Special Waste Department, telephone 1-800-963-4776, to obtain approval. If the landfill operator refuses to accept this waste, you should contact us to determine alternate disposal options.

2. The waste must be transported separately to the landfill and be identified to the operator upon delivery.

3. Kansas Administrative Regulation 28-29-108(r) (12) and (13) requires solid waste disposal facilities to maintain a log of commercial or industrial wastes received such as sludges, barreled wastes, and special wastes. The log must indicate the source and quantity of waste and the disposal location thereof. The industrial waste authorization number should be used as identification when entering the shipment into the log.

4. This approval is valid for disposal of the waste described and in the amount shown above. If additional shipments are required, you must contact us to receive another disposal authorization.

5. Operating standards as defined by K.A.R. 28-29-108(k) prohibit the disposal of liquid waste. "Liquid waste" means any waste material that is determined to contain "free liquids" as defined by method 9095A, revision 1, paint filter liquids test, as described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. No. SW-846 dated December 1996. **For purposes of this disposal authorization, all waste for disposal must be able to pass the "paint filter test".**

6. Any change in the process producing this waste, any change in the materials used in producing this waste or any other change to this waste stream requires that a new Special Waste Disposal Authorization be obtained prior to disposal.

If you have any questions, feel free to contact me at 785-296-1600.

Sincerely,

Tony Guy for
Jim Rudeen, Chief
Bureau of Waste Management
Waste Reduction, Compliance, and Enforcement

ABG

C Special Waste Department
F, Y

Requester phone: 785 841-8707

M.D. Chemical and Testing, Inc.
P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax(785)862-5132

Sample Collected By: T.G.
Received In lab: 6/15/2006
Date Reported: 6/16/2006
Project Name:
Project Number:

Lab Number: 1062574
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1062574-01 **Sample ID:** CN-CM-W-19917						
Sampled: 6/12/2006						
VOLATILE ORGANICS - METHOD						
2-Chloroethyl vinyl ether	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)	6/15/2006	TPJ
Vinyl Chloride	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichlorofluoromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,2-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,1-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Benzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloropropane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromodichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Toluene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Cis-1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dibromochloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Chlorobenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Ethylbenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromoform	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2,2-Tetrachloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3/1,4-Xylene(m/p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Xylene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3-Dichlorobenzene(m)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,4-Dichlorobenzene(p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichlorobenzene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		

M.D. Chemical and Testing, Inc.
P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax(785)862-5132

Sample Collected By: T.G.
Received In lab: 6/15/2006
Date Reported: 6/16/2006
Project Name:
Project Number:

Lab Number: 1062574
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1062574-02 **Sample ID:** MR-CM-W-16554						
Sampled: 6/12/2006						
VOLATILE ORGANICS - METHOD						
2-Chloroethyl vinyl ether	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)	6/15/2006	TPJ
Vinyl Chloride	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichlorofluoromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,2-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,1-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Benzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloropropane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromodichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Toluene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Cis-1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dibromochloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Chlorobenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Ethylbenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromoform	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2,2-Tetrachloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3/1,4-Xylene(m/p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Xylene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3-Dichlorobenzene(m)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,4-Dichlorobenzene(p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichlorobenzene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		

M.D. Chemical and Testing, Inc.
P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax(785)862-5132

Sample Collected By: T.G.
Received In lab: 6/15/2006
Date Reported: 6/16/2006
Project Name:
Project Number:

Lab Number: 1062574
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1062574-03 **Sample ID:** EV-CM-W-20122						
Sampled: 6/12/2006						
VOLATILE ORGANICS - METHOD						
2-Chloroethyl vinyl ether	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)	6/15/2006	TPJ
Vinyl Chloride	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichlorofluoromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,2-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,1-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Benzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloropropane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromodichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Toluene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Cis-1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dibromochloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Chlorobenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Ethylbenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromoform	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2,2-Tetrachloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3/1,4-Xylene(m/p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Xylene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3-Dichlorobenzene(m)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,4-Dichlorobenzene(p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichlorobenzene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		

M.D. Chemical and Testing, Inc.
P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax(785)862-5132

Sample Collected By: T.G.
Received In lab: 6/15/2006
Date Reported: 6/16/2006
Project Name:
Project Number:

Lab Number: 1062574
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1062574-04 **Sample ID:** NV-CM-2-20220						
Sampled: 6/12/2006						
VOLATILE ORGANICS - METHOD						
2-Chloroethyl vinyl ether	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)	6/15/2006	TPJ
Vinyl Chloride	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichlorofluoromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,2-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,1-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Benzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloropropane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromodichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Toluene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Cis-1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dibromochloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Chlorobenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Ethylbenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromoform	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2,2-Tetrachloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3/1,4-Xylene(m/p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Xylene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3-Dichlorobenzene(m)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,4-Dichlorobenzene(p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichlorobenzene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		

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P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax(785)862-5132

Sample Collected By: T.G.
Received In lab: 6/15/2006
Date Reported: 6/16/2006
Project Name:
Project Number:

Lab Number: 1062574
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1062574-05 **Sample ID:** NV-QC-TB-61306						
Sampled: 6/12/2006						
VOLATILE ORGANICS - METHOD						
2-Chloroethyl vinyl ether	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)	6/15/2006	TPJ
Vinyl Chloride	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichlorofluoromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,2-Dichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,1-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Benzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trichloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichloropropane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromodichloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Trans 1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Toluene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Cis-1,3-Dichloropropene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2-Trichloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Tetrachloroethylene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Dibromochloromethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Chlorobenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Ethylbenzene	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
Bromoform	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,1,2,2-Tetrachloroethane	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3/1,4-Xylene(m/p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Xylene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,3-Dichlorobenzene(m)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,4-Dichlorobenzene(p)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		
1,2-Dichlorobenzene(o)	EPA 624/8260	Not Detected	[0.5]	µg/L(ppb)		

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P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax(785)862-5132

Sample Collected By: T.G.
Received In lab: 6/15/2006
Date Reported: 6/16/2006
Project Name:
Project Number:

Lab Number: 1062574
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1062574-02: Three of the four vials were marked CN-CM-W-16554						

Approved By: Delbert Smith 2006.06.16 11:46:09 -05'00'
Lab Manager

WATER VOLATILE SURROGATE RECOVERY

EPA Method 8260A

M.D. CHEMICAL & TESTING

SATURN 2000 w/ Tekmar 3000 PURGE & TRAP

QA-QC Larsen 1062574

EPA Sample No	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	S9 #	S10 #	S11 #	S12 #	S13 #	S14 #	S15 #	S16 #	S17 #	S18 #	S19 #	S20 #	TOTAL OUT
061506OXST	103	102	101	104																	0
061506BLK	103	99	105	108																	0
106256203	101	90	98	99																	0
106256201	92	90	103	99																	0
061506BLK2	102	104	104	127	*																1
106256206	102	98	99	108																	0
106256202	97	91	97	109																	0
106256205	99	95	107	117																	0
106256204	98	96	103	109																	0
106256204D	101	98	106	111																	0
106256204S	95	99	101	105																	0
106256204S	107	105	98	107																	0
106255401	94	96	97	105																	0
106255409	101	97	97	114																	0
106255406	101	100	98	110																	0
106255411	102	97	104	122																	0
106255415	100	98	100	111																	0
106255416	99	94	102	101																	0
106255403	98	95	104	103																	0
106255412	101	97	105	117																	0
106255414	97	96	104	112																	0

EPA Sample No	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	S9 #	S10 #	S11 #	S12 #	S13 #	S14 #	S15 #	S16 #	S17 #	S18 #	S19 #	S20 #	TOTAL OUT
106255417	100	93	103	121																	0
106255404	99	93	100	113																	0
106255410	100	96	100	109																	0
106255413	102	95	99	118																	0
106255405	97	93	98	121																	0
106255407	101	99	98	108																	0
106255408	106	100	102	109																	0
106255402	104	97	106	114																	0
106257201	100	95	106	117																	0
106257206	101	98	100	121																	0
106257214	98	93	100	115																	0
106257401	98	97	104	123																	0
106257402	100	99	102	117																	0
106257403	101	99	101	111																	0
106257404	103	102	99	106																	0
106257405	99	94	97	112																	0
Replicates:	37	37	37	37																	
Average:	100	97	101	112																	
StdDev:	3	3	3	7																	

		QC Limits
S 1 =	[SS1] Dibromofluoromethane	(75 - 125)
S 2 =	[SS2] 1,2-Dichloroethane-d4	(75 - 125)
S 3 =	[SS3] Toluene-d8	(75 - 125)
S 4 =	Bromofluorobenzene(BFB)	(75 - 125)

Column to be used to flag recovery values.

* Values outside of contract required QC Limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Method 8260A

M.D.Chemical & Testing

Saturn 2000 w/Tekmar 3000 Purge & Trap

Matrix Spike - EPA Sample No 106256204

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION		MS CONCENTRATION	MS % REC #	QC LIMITS REC
Methyl tert-Butyl Ether (MTBE)	45.0	0.0	ppb	35.9	80	70 - 130
Benzene	45.0	0.0	ppb	40.6	90	70 - 130
Toluene	45.0	0.5	ppb	41.7	92	70 - 130
Ethylbenzene	45.0	0.0	ppb	39.6	88	70 - 130
m/p-Xylene	90.0	0.0	ppb	82.3	91	70 - 130
o-Xylene	45.0	0.0	ppb	47.4	105	70 - 130
Naphthalene	45.0	2.0	ppb	54.1	116	70 - 130

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Methyl tert-Butyl Ether (MTBE)	45.0	49.0	109	31 *	20	70 - 130
Benzene	45.0	53.7	119	28 *	20	70 - 130
Toluene	45.0	49.2	108	17	20	70 - 130
Ethylbenzene	45.0	48.9	109	21 *	20	70 - 130
m/p-Xylene	90.0	102.5	114	22 *	20	70 - 130
o-Xylene	45.0	64.9	144 *	31 *	20	70 - 130
Naphthalene	45.0	74.2	160 *	32 *	20	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 6 out of 7 outside limits

Spike Recovery: 2 out of 14 outside limits

M.D. Chemical and Testing, Inc.
P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax(785)862-5132

Sample Collected By: Lisa Larsen
Received In lab: 6/6/2006
Date Reported: 6/7/2006
Project Name: Soil Cuttings-Centralia/Everest/Morrill Project
Project Number:

Lab Number: 1062502
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1062502-01 **Sample ID:** Soil Cuttings **Sampled:** 6/4/2006						
Carbon Tetrachloride	SW 846-8260	Not Detected	[0.05]	mg/kg(ppm)	6/6/2006	DS
Chloroform	SW 846-8260	Not Detected	[0.05]	mg/kg(ppm)	6/6/2006	DS

Approved By: Delbert Smith 2006.06.07 10:22:29 -05'00'
Lab Manager

SOIL VOLATILE SURROGATE RECOVERY

EPA Method 8260A

M.D. CHEMICAL & TESTING

SATURN 2000 w/ ARCHON (SOIL METHOD)

Level:(low/med) LOW

EPA Sample No	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	S9 #	S10 #	S11 #	S12 #	S13 #	S14 #	S15 #	S16 #	S17 #	S18 #	S19 #	S20 #	TOTAL OUT
060606sblk	87	88	98	111																	0
106250201	83	83	93	104																	0
Replicates:	2	2	2	2																	
Average:	85	86	96	108																	
StdDev:	3	4	4	5																	

			QC Limits
S 1	=	[SS1] Dibromofluoromethane	(70 - 130)
S 2	=	[SS2] 1,2-Dichloroethane-d4	(70 - 130)
S 3	=	[SS3] Toluene-d8	(70 - 130)
S 4	=	[SS4] Bromofluorobenzene(BFB)	(70 - 130)

Column to be used to flag recovery values.

* Values outside of contract required QC Limits

D System Monitoring Compound diluted out

WATER VOLATILE SURROGATE RECOVERY

EPA Method 8260A

M.D. Chemcial & Testing

Saturn 2000 Archon w/Tekmar 3000 Purge & Trap

EPA Sample No	S1	#	S2	#	S3	#	S4	#	S5	#	S6	#	S7	#	S8	#	S9	#	S10	#	S11	#	S12	#	S13	#	S14	#	S15	#	S16	#	S17	#	S18	#	S19	#	S20	#	TOTAL OUT
060606BLK	82		81		93		121																																0
060606STD	85		84		96		115																																0
106248503	90		93		99		127																																0
106248612	82		87		90		116																																0
106248703	86		90		99		134	*																															1
106248501	84		88		92		119																																0
106248502	83		82		89		115																																0
106248601	86		87		91		121																																0
106248602	84		82		93		120																																0
106248603	90		89		92		116																																0
106248604	83		84		90		118																																0
106248701	85		84		96		122																																0
106248702	92		91		99		127																																0
106248702D	87		88		90		125																																0
106248702S	81		65	*	93		122																																1
106248702S	91		73		97		132	*																															1
106248605	91		89		95		127																																0
106248606	84		84		89		124																																0
106248608	80		75		93		119																																0
106248610	87		67	*	94		125																																1
106248611	83		83		91		118																																0

EPA Sample No	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	S9 #	S10 #	S11 #	S12 #	S13 #	S14 #	S15 #	S16 #	S17 #	S18 #	S19 #	S20 #	TOTAL OUT
106248607	81	57 *	88	121																	1
106248609	84	37 *	91	123																	1
Replicates:	23	23	23	23																	
Average:	85	80	93	122																	
StdDev:	3	13	3	5																	

			QC Limits			
S 1	=	[SS1] Dibromofluoromethane	(	70	-	130)
S 2	=	[SS2] 1,2-Dichloroethane-d4	(	70	-	130)
S 3	=	[SS3] Toluene-d8	(	70	-	130)
S 4	=	[SS4] Bromofluorobenzene(BFB)	(	70	-	130)

Column to be used to flag recovery values.

* Values outside of contract required QC Limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Method 8260A

M.D. Chemical & Testing

Saturn 2000 Archon w/Tekmar 3000 Purge & Trap

Matrix Spike - EPA Sample No 106248702

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC
Methyl tert-Butyl Ether (MTBE)	45.0	0.0	44.1	98		70 - 130
Benzene	45.0	0.0	46.0	102		70 - 130
Toluene	45.0	0.0	43.5	97		70 - 130
Ethylbenzene	45.0	0.0	41.6	92		70 - 130
m/p-Xylene	90.0	0.0	87.4	97		70 - 130
o-Xylene	45.0	0.0	56.7	126		70 - 130
Naphthalene	45.0	0.0	34.0	76		70 - 130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC
Methyl tert-Butyl Ether (MTBE)	45.0	46.3	103		5		20	70 - 130
Benzene	45.0	48.3	107		5		20	70 - 130
Toluene	45.0	45.0	100		3		20	70 - 130
Ethylbenzene	45.0	43.4	96		4		20	70 - 130
m/p-Xylene	90.0	92.6	103		6		20	70 - 130
o-Xylene	45.0	60.4	134	*	6		20	70 - 130
Naphthalene	45.0	40.1	89		16		20	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 7 outside limits

Spike Recovery: 1 out of 14 outside limits

WASTE MANAGEMENT
Midwest Industrial Sales Office
7780 E. 96th Ave.
Henderson, CO 80640
(303) 336-3900
(303) 280-9848 Fax

June 13, 2006

Lisa Larsen
Larsen & Associates Inc.
P.O. Box 1447
Lawrence, KS 66044
FAX #: 785-865-4282
RE: WM/KDHE Profile Number: 06-0581
Generator: USDA, Potentially cont. soils
Expiration Date: 12/08/2006

Dear Ms. Larsen:

This letter shall serve as written confirmation that RollingMeadows has all necessary permits and licenses to accept the waste materials described on the above referenced profile. Limitations on acceptance if any are noted at the base of this letter.

Please be sure to enter your profile number on the Non-Hazardous Waste Manifest. If you would like assistance in completing the Manifest, or need additional manifests please contact Debbie Neff at (785) 246-0305. **All loads received at the landfill require a 24-hour notice. Please contact the landfill at (785) 246-0305 for scheduling.**

Thank you for allowing Waste Management to assist you with your waste disposal needs.
Sincerely,

Lisa Adam
Waste Management Industrial Sales
Kansas M/A

If not otherwise specified herein, no special conditions exist:
- ✓ No free liquids allowed.
- ✓ Subject to inspection by WMI.
- ✓ Manifest each load.
- ✓ Drums must be labeled non-hazardous.

WASTE MANAGEMENT

INDUSTRIAL WASTE & DISPOSAL SERVICES AGREEMENT

Exhibit A

WM Profile #	06-0581
CWM Profile #	

CUSTOMER BILLING ADDRESS	CUSTOMER CONTRACTING ADDRESS (If different from Billing Address)	CUSTOMER SERVICE LOCATION (If different from Billing Address)
Larsen & Associates Inc.		USDA
P.O Box 1447		
Lawrence, KS		Everest, KS
Contact Phone: (785) 841-8707		Contact Phone: (785) 841-8707

WM Customer Service Phone:	720-977-2114	WM Contact:	Lisa Adam	WM Contact Phone:	

Service Information

Generator:	USDA			
Ground Transporter:	N/A			
PO#, SO#, Job #:	N/A			
Waste Description:	Potentially cont. soils			
Disposal Cost:	$75.00/dr			
Profile Fee:	$100.00			
Additional Cost: (describe)	Fuel Surcharge & Environmental Fee			
Additional Cost: (describe)	Trans option 1 - 20yd roll off $525 delivery, $525/trip, $7.00/day after 7th day, $75.00/liner			
Taxes:	$2.50/Ton State & Local Taxes			
Transportation Fee:	Trans option 2 -Transporter load $1500.00/trip or Trans option 3 - Customer load $1000.00			
Containers provided by WM:	Quantity:	Size:	Quantity:	Size:
	Quantity:	Size:	Quantity:	Size:
	Quantity:	Size:	Quantity:	Size:
Pick-up Frequency:	N/A			
Contract Expiration Date:	12/08/2006			
Additional Information:	NON-HAZARDOUS MANIFEST MUST ACCOMPANY EACH LOAD.			
Salesperson Code:	State 2 digit code:	Waste CAT: ☐BA ☐EV	Waste Type: ☐MD ☐SP ☐ID ☐HZ	

THE WORK CONTEMPLATED BY THIS EXHIBIT A IS TO BE DONE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE INDUSTRIAL SERVICES AGREEMENT OR OTHER CONTRACTUAL AGREEMENT BETWEEN THE PARTIES DATED: 6/13/2006

COMPANY

By: _____ 6/13/2006 Date

Name: Bill Lay

Title: Industrial Account Manager

CUSTOMER

By: _____ Date

Name: Lisa Larsen

Title: _____

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Service Agreement on file ☒ YES ☐ NO

Profile number WM 06-0581
Renewal Date: 12-08-06 ok

Generator Site Identification

1. Generator Name: USDA
2. Site Code:
3. Facility Street Address:
4. Phone: 720-544-2707
5. Facility City: Evergreen
6. State/Province: CO
7. Zip/Postal Code: 80439
8. County: Jefferson
9. Generator USEPA/Federal ID #:
10. State/Province ID #:
11. Customer Name: Rocky Mountain Research
12. Customer Phone: 720-544-2721
13. Customer Contact: Tim Larsen
14. Customer Fax: 720-544-2822

Waste Stream Information

1. Name of Waste: Potentially Hazardous Soil
2. State Waste Code:
3. Process Generating Waste: drilling - monitoring well installation
4. Estimated Annual Volume: 10 drums ☐ TONS ☐ YARDS ☐ OTHER (Specify)
5. Personal Protective Equipment Requirements:
6. Transporter/Transfer Station:
7. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip 8, 9 & 10) ☐ YES ☐ NO
8. Reportable Quantity (lbs.; kgs.):
9. Hazard Class ID #:
10. USDOT Shipping Name: ☐ Check if additional information is attached; initial/dot the number of attached pages

Generator Certification (Please check appropriate response, Sign and date below)

		YES	NO
1.	Is the waste represented by this waste profile sheet a "Hazardous Waste," as defined by USEPA, Canadian, Mexican and/or state/province regulation, in the location where generated or ultimately managed?	☐	☒
2.	Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated contamination of Polychlorinated Biphenyls (PCBs)?	☐	☒
3.	Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material?	☒	☐
4.	Has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor?	☒	☐
5.	Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules? ☐ NA	☒	☐
6.	Will all changes that occur in the character of the waste be identified by the Generator and disclosed to the Contractor, prior to providing the waste to the Contractor?	☒	☐

Certification Signature: Title: Pres.

Name (Type or Print): Tim Larsen Company Name: Larsen & Associates Date: 5-30-06

WASTE MANAGEMENT'S DECISION — FOR WM USE ONLY

1. Management Method: ☒ Landfill ☐ Bioxidation ☐ Bioremediation ☐ Other (Specify) 25 cubic yard
2. Proposed Ultimate Management Facility: Squire Meadows RDF
3. Hours of Acceptance: NA ☐
4. Supplemental Information:
5. Precautions, Special Handling Procedures or Limitations on Approval? Must test each load
Must be separated by
Drums must be like non-hazardous

Special Waste Decision: Approved Disapproved
Salesperson's Signature: Date:
Division Approval Signature (Optional): Date:
Special Waste Approvals Person Signature: Date: 6-12-06

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